

Telecom Power Solutions

MEGMEET brings over 20 years of power electronics expertise to telecom power solutions engineered for efficiency, modularity, and reliable performance in 5G and mission-critical applications.



About Us

MEGMEET is a \$1.2B global power and energy company specializing in high-efficiency power solutions for datacenters, eMobility, healthcare, industrial automation and renewable energy. With R&D, manufacturing facilities and global operations across North America, India, Thailand, China and Germany, MEGMEET is Engineered to Empower™ the future of datacenter and networking power.



21%
YoY Revenue Growth



10
R&D Centers



9
Manufacturing Centers



23%
R&D Staff



13,000+
Total Employees



1,990+
No. of Patents & IP Rights

MEGMEET
Engineered to Empower™



Telecom Power Solutions Engineered to Empower™ mission-critical and 5G applications



Enhanced Reliability

Megmeet's power systems offer an extremely broad spectrum of telecom power supplies, with the maximum power output reaching up to 3000A. These systems are fully compatible with 2kW/3kW/4kW 48V rectifiers. Each slot can be equipped with rectifiers of varying efficiencies. Moreover, by integrating rectifiers, MPPT (solar) modules, DC - AC inverters, and DC - DC modules, the system can serve as a versatile hybrid power solution.



Greater Flexibility

Sub-racks are available from 1U to 23U and in widths from 19" to 23", with tailored configurations to meet operator-specific installation requirements.



Broader Applications

Our telecom power solutions are engineered for diverse deployment scenarios, including outdoor 5G applications with 2kW/3kW IP65 power supplies and 50Ah IP65 batteries.



Customized Services

MEGMEET offers tailored system solutions for capacity, dimensions, and breaker preferences, with configurations designed to meet CE, UL, IEC, and other certification requirements.

Outdoor Cabinet

IPBO448F20-A1

This outdoor power cabinet is designed for harsh environment with comprehensive environmental monitoring capabilities. The IP55-rated enclosure is made of 1.5mm thick SGCC* steel and configure a three-point anti-theft lock for enhanced security.

To maintain a stable internal temperature, the cabinet is equipped with two 225 mm centrifugal fans and G4-grade air filters to ensure powerful airflow while blocking dust. This flexible power system supports a standard 220 VAC single-phase input with a total capacity of 48 kW, and it is designed to work with various battery types and load circuit breakers for comprehensive electrical protection.

With comprehensive environment monitoring capabilities, the cabinet operates within a temperature range of -40 °C to +65 °C and a non-condensing humidity range of 5% to 95%. Integrated smoke sensor, water sensor, and door sensor provide real-time monitoring for equipment safety and stability.



* SGCC: Steel Galvanized Cold Commercial

Key Features

- Robust construction: IP55-rated, 1.5 mm SGCC*, anti-theft lock
- Flexible power distribution: 220 VAC input, 48 kW power capacity, various breakers
- Efficient cooling: 225 Centrifugal fan 2 PCS+G4 filter
- Comprehensive monitoring: Temperature, humidity, and multiple sensors

Key Features			
Outer Size(W×D×H)	700 mm (W) × 700 mm (D) × 2000 mm (H) (exclude external distribution box)	Lighting	1 PCS
Covering Area (W×D)	700 mm (W) × 700 mm (D)	Smoke Sensor	1 PCS
Height of Base	150 mm (2.0 mm SGCC*)	Water Sensor	1 PCS
Inner Space	37 U	Door Sensor	1 PCS
Wall Material	1.5 mm SGCC*	Input Distribution	
Door Material	1.5 mm SGCC*		Input Mode
Lock	Three point Anti-theft lock	Input Breakers	2 * 125A / 3P
Protection Grade	IP55	Input Frequency	45 to 65 Hz, rated value: 50 Hz / 60 Hz
Wiring Position	Bottom in and out	AC SPD*	20 kA / 40 kA, 8 / 20μs
DC Output Distribution			
Output Voltage	-42 to -58 VDC, rated value: -53.5 VDC		
Maximum Capacity	48 kW		
Battery Breakers	125 A / 1 PN * 6		
Load Breakers	Tenant1--LLVD: 1 * 32 A / 1P, 2 * 63 A / 1P, 2 * 125 A / 1P; BLVD: 1 * 32 A / 1P, 1 * 63 A / 1P, 1 * 100 A / 1 P Tenant2--LLVD: 1 * 32 A / 1P, 2 * 63 A / 1P, 2 * 125 A / 1P; BLVD: 1* 32 A / 1P, 1* 63 A / 1P, 1 * 100 A / 1 P BLVD: 3 * 6 A / 1PN, 1 * 10 A / 1 PN , 1*16 A / 1PN		
DC SPD*	10 kA, 8 / 20 μs		
Temperature Control Information			
Direct ventilation	225 Centrifugal fan 2 PCS+G4 filter		
Controller			
DI/DO*	4 AI(3 temp, 1 hum) , 12DI, 16DO, 3 Southbound RS485, 1 Northbound RS485, 12 V		
Environment			
Operating Temperature	-40 °C to +65 °C (non-derating under 45 °C) @ -40 °C, can startup; @ 45 to 65 °C, linear derating to 80 %		
Operating Humidity	5 % to 95 % (non-condensing)		
Altitude	0 to 4000 m (If the altitude is within the range of 2000 to 4000 m, the maximum operating temperature decreases by 1 °C as the altitude increase by 200 m)		

* This is a standard Megmeet power system. Customized design is available.

* DI / DO: Digital Input & Output

* AC SPD: Alternating Current Surge Protective Device

* DC SPD: Direct Current Surge Protective Device

* SGCC: Steel Galvanized Cold Commercial

Outdoor Power Cabinet

IPBO424H22-A1

This rugged outdoor power cabinet is designed for harsh environments with comprehensive environmental monitoring capabilities. The IP55-rated enclosure is made of 1.5 mm thick SGCC* steel and features a three-point anti-theft lock for enhanced security.

To ensure stable operation, the cabinet has a built-in 120 W/K high-efficiency heat exchanger and a flexible power distribution system that supports 220 VAC single-phase input, up to 24kW of power, and a variety of batteries and load circuit breakers.

With comprehensive environmental monitoring capabilities, the cabinet operates within a temperature range of -40°C to +55 °C and a non-condensing humidity range of 5 to 95%. Exclamation built-in smoke, water, and door sensors provide real-time monitoring for equipment safety and stability.



Key Features

- Robust construction: IP55-rated, 1.5mm SGCC*, anti-theft lock
- Efficient cooling: 120W/K heat exchanger
- Flexible power distribution: 220 VAC input, 24 kW capacity, various breakers
- Comprehensive monitoring: Temperature, humidity, and multiple sensors

Key Features			
Outer Size(W x D x H)	700 x 700 x 2200 (mm) (exclude climate protrusion)	Lighting	1 PCS
Covering Area(W x D)	700 x 700 (mm)	Smoke Sensor	1 PCS
Height of Base	100mm (2.0mm SGCC*)	Water Sensor	1 PCS
Inner Space	45 U	Door Sensor	1 PCS
Wall Material	1.5 mm SGCC*	Input Distribution	
Door Material	1.5 mm SGCC*		
Lock	Three point Anti-theft lock	Input Breakers	80 A / 2P * 2
Protection Grade	IP55	Input Frequency	45 to 65 Hz ,rated value: 50 Hz /60Hz
Wiring Position	Bottom in and out	AC SPD	20 kA / 40 kA, 8 / 20 μs
DC Output Distribution			
Output Voltage	-42 to -58 VDC, rated value: -53.5 VDC		
Maximum Capacity	24 kW		
Battery Breakers	6 * 125 A / 1P (right side wall installation)		
Load Breakers	LLVD: 4 * 125 A / 1P; BLVD: 2 * 32A / 1P, 4 * 40 A / 1P, 4 * 63 A / 1P, 4 * 100 A / 1P, 2 * 125 A / 1P		
DC SPD	20 kA, 8 / 20 μs		
Temperature Control Information			
Heat Exchanger	120 W/ K		
Controller			
DI/DO*	4 AI (3 temp, 1 hum), 8 DI, 8DO, 2 Southbound RS485, 1 Northbound RS485, 12V*1 output		
Environment			
Operating Temperature	-40 °C to +55 °C; At -40 °C, can startup		
Operating Humidity	5 to 95% (non-condensing)		
Altitude	0 to 4000 m (If the altitude is within the range of 2000 to 4000 m, the maximum operating temperature decreases by 1 °C as the altitude increases by 200 m)		

* DI / DO: Digital Input & Output

* AC SPD: Alternating Current Surge Protective Device

* DC SPD: Direct Current Surge Protective Device

* SGCC: Steel Galvanized Cold Commercial

Mega Power System

IPBI41802-A

IPBI41802-A indoor cabinet provides a safe and reliable physical working environment for wireless communication sites. The system integrates functions such as an indoor cabinet, temperature control equipment, and environmental monitoring. The power supply system and AC / DC power distribution unit can be installed according to user requirements inside cabinet.



*The product is under development.

Key Features

- Less than 1 square meter, easy installation
- High efficiency up to 97% for lower operation cost
- Upgradable with MR484000 rectifiers (156kW n+1 redundant)
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces

Input Distribution	
Input Mode	380 VAC three-phase
Input Capacity	400 A / 3P
Input Frequency	45 to 66Hz, rated value: 50 / 60 Hz
AC SPD *	20 / 40 kA, 8 / 20μs
Output Distribution	
Output Voltage	-42 to -58 VDC, rated value: -53.5 VDC
Maximum Capacity	160 kW
Battery FUSES	2 * 1250 A
Load FUSES	BLVD Fuse: 2 × 160 A + 1 × 500 A, LLVD Fuse: 2 × 160 A + 1 × 500 A
DC SPD *	10 / 20 KA, 8 / 20 μs
Output Capacity	3000 A
Cabinet Information	
Dimension(W x D x H)	600 x 600 x 2000 (mm)
Controller	
DI/DO *	4 AI (3 temp, 1 hum) , 8 DI, 8 DO, 2 Southbound RS485, 1 Northbound RS485, 12 V * 1 output
Environment	
Operating Temperature	-40 °C to +65 °C
Operating Humidity	5 to 95% (non-condensing)
Altitude	0 to 4000 m (if the altitude is within the range of 2000 to 4000 m, the maximum operating temperature decreases by +1 °C as the altitude increases by 200 m)

* DI / DO: Digital Input & Output

* AC SPD: Alternating Current Surge Protective Device

* DC SPD: Direct Current Surge Protective Device

* SNMP: Simple Network Management Protocol

Outdoor Battery Cabinet

IPBIB235-A1

The IPBIB235-A1 outdoor cabinet is robustly designed to protect electrical and battery components in external environments. With a protection grade of IP55, it effectively shields against dust and water. The cabinet's three point anti-theft lock and 1.5 mm SGCC* construction ensure high security and durability. The integrated temperature control system with DC fans provides efficient ventilation, while built-in sensors and circuit breakers enhance operational safety.



* SGCC: Steel Galvanized Cold Commercial

Key Features

- High security: Equipped with a three point anti-theft lock and constructed from 1.5 mm SGCC* for enhanced protection
- Ample space: Provides 45U inner space, with 38U dedicated to batteries, accommodating various components efficiently
- Effective protection: Rated IP55, offering superior protection against dust and water ingress
- Advanced safety measures: Includes a 400 A / 2P MCCB for battery protection, water and door sensors, and direct ventilation with DC fans for optimal temperature control

Parameters	
Outer Size(W x D x H)	900 x 900 x 2350 (mm) (excluding climate protrusion)
Covering Area(W x D)	900 x 900 (mm)
Height of Base	200 mm (2.0 mm SGCC*)
Inner Space	45 U (38 U for Battery)
Wall Material	1.5 mm SGCC*
Door Material	1.5 mm SGCC*
Lock	Three point anti-theft lock
Protection Grade	IP55
Wiring Position	Bottom in and out
Electric	
Circuit Breaker	400 A / 2P MCCB 1PCS for battery, 6 A / 1P MCB 2PCS for LED light and DC fan
Temperature Control Information	
Direct Ventilation	DC Fan x 2
Other Information	
Lighting	DC -48V LED light x 1 PCS
Smoke Sensor	Optional configurations available
Water Sensor	1 PCS
Door Sensor	1 PCS
Environment	
Operating Temperature	-40 °C to +55 °C; At -40 °C, can startup
Operating Humidity	5 to 95% (non-condensing)
Altitude	0 to 4000 m (If the altitude is within the range of 2000 to 4000 m, the maximum operating temperature decreases by 1 °C as the altitude increases by 200 m)

* SGCC: Steel Galvanized Cold Commercial

Indoor Battery Cabinet

IPBI2-ABAT

The IPBI2-ABAT indoor battery cabinet is designed to house and organize batteries efficiently within a protected environment. Built from 1.2mm SGCC* for long-term durability, the cabinet features an IP20 protection rating (shielding against solid objects like fingers) and a single-point locking system for security.

With flexible wiring positions and ample inner space, it supports easy installation and maintenance of electrical components.



* SGCC: Steel Galvanized Cold Commercial

Key Features

- High durability: Constructed with 1.2 mm SGCC* for both wall and door
- Ample space: Offer 42U user space to accommodate multiple battery trays and electrical components
- Enhanced safety: Single point lock and IP20 protection grade ensure secure and safe operation
- Efficient organization: Includes 8 battery trays with 4U spacing and 8 x 125A / 1P MCB* for organized and efficient electrical distribution.

Parameters	
Outer Size (W x D x H)	600 x 600 x 2000 (mm)
Covering Area (W x D)	600 x 600 (mm)
Appearance Color	RAL9005
Inner Space	42U (19 inch)
Wall Material	1.2 mm SGCC*
Door Material	1.2 mm SGCC*
Lock	Single point lock
Protection Grade	IP20
Wiring Position	Bottom in and top out
Battery Tray	9 pieces (The spacing between trays is 4U)
Electrical Parts	9 x 125 A / 1 P MCB for BATT- & RTN* bar
Environment	
Operating Temperature	-40 °C to +65 °C
Operating Humidity	5 to 95% (non-condensing)
Altitude	0 to 4000 m (if the altitude is within the range of 2000 to 4000 m, the maximum operating temperature decreases by +1 °C as the altitude increases by 200 m)

* SGCC: Steel Galvanized Cold Commercial

* MCB: Miniature Circuit Breaker

* BATT-& RTN: Battery Negative & Return

5G Outdoor Power

IPBO46F08-A2

IIPBO46F08-A2 is an outdoor pole-mounted power cabinet designed for 5G small cell base stations. It features an Ip55 rating (water and dust resistant) and supports versatile installation on either walls or poles. To maintain reliability in harsh conditions, it uses integrated fan cooling and supports an output of up to 9kW. Moreover, with intelligent monitoring and flexible load / battery circuit configurations.



Key Features

- IP55 outdoor-rated SGCC* enclosure with fan cooling
- Integrated controller with RS485 and DI / DO / AI* support
- Compatible with 100 Ah and 150 Ah lithium battery
- Flexible mounting: wall or pole
- Supports up to 9 kW DC output

AC Distribution		DC Distribution	
Input Mode	220 VAC single - phase	Output Voltage	-42 to -58 VDC, rated value: -53.5 VDC
Input Capacity	63 A / 2P	Battery Breakers	100 A / 1P * 1
Input Frequency	45 to 65 Hz, rated value: 50 / 60 Hz	Load Breakers	20 A / 1P * 2 + 40 A / 1P * 4
Rectifier		Controller	
Input Voltage	85 to 290 VAC, rated 220 VAC	Signal Input	4AI (3 temp, 1 hum.), 2 RS485, 8DI
Efficiency	> 96%	Alarm Output	8DO, 12 V output
Rated Power	3000 W	Communication Port	RS485, SNMP*
Maximum Output Current	62.5 A	Display Mode	LCD*
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-40 °C to +55 °C
Cooling Airflow	Side exhaust via right-mounted fan	Storage Temperature	-40 °C to +75 °C
Maintenance Mode	Front maintenance	Operating Humidity	5 to 95% (non-condensing)
Protection Level	IP55	Altitude	0 to 4000 m (if the altitude is within the range of 2000 to 4000m, the maximum operating temperature decreases by +1 °C as the altitude increases by 200 m)

* This is a standard Megmeet power system. Customized design is available.

* DI/DO/AI: Digital Input/Output and Analog Input for sensor alerts

* SGCC: Steel Galvanized Cold Commercial

* LCD: Liquid Crystal Display

Bidirectional Inverter Subrack

IPU6KV-A2A319A

The IPU6KV-A2A319A is a 1U plug-in subrack designed for telecom hybrid power systems, supporting bidirectional inverter modules (DC-AC & AC-DC). Each module provides 2 kW, with up to 3 modules in parallel for a total system capacity of 6kW. It features terminal-based AC and DC distribution, flexible mounting options, and compatibility with lithium battery systems for energy storage, peak shaving, or backup power applications.



Key Features

- Bidirectional operation: DC-AC & AC-DC
- Terminal-type AC / DC distribution
- 6kVA total output (3×2 kVA modules)
- Supports 100 Ah / 150 Ah lithium batteries

AC Input Distribution		DC Distribution	
Input Mode	220 VAC single - phase	Input Mode	-42 VDC to -58 VDC, Max 150 A
Input Capacity	3×115 A / 1 P terminals	Output Mode	-53.5 VDC, Max 90 A
Input Frequency	50 Hz / 60 Hz	DC Terminal	2×200A / 2P
AC Output Distribution		Controller	
Output Voltage	220 / 230 VAC	Signal Input	4 AI (3 temp, 1 hum.), 2 RS485, 8 DI*
Maximum Capacity	6 kVA, Max 27.3 A	Alarm Output	8 DO*, 12 V output
Output Terminal	2×115 A / 1 P terminals	Communication Port	RS485, SNMP*
Protection Level	IP20	Display Mode	LCD*
Inverter		Environment	
Input Voltage	DC: 42-58 VDC (rated 53.5 V) AC: 187-275 VAC (rated 220 V)	Operating Temperature	-20°C to +75°C (non-derating under 45°C)@ -20°C, can startup; @ 45 ~75°C, linear derating to 60%
Efficiency	DC to AC: 92%; AC to AC: 94%	Storage Temperature	-40 °C to +75 °C
Rated Power/Output Voltage	2000 W / 220VAC / 230 VAC	Operating Humidity	5% to 95% (non-condensing)
Max Output Current	15 A (RMS)	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet power system. Customized design is available.

* LCD: Liquid Crystal Display

* DI: Digital Input

* DO: Digital Output

* SNMP: Simple Network Management Protocol

Rectifier Subrack

IPU43K4-B3A21 1U / 60A

IPU43K4-B3A21 is a 19-inch subrack power system produced by Megmeet, with 1U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 60A, with AC / battery / load terminals. The AC input and DC output cables are front accessing with terminals.



Key Features

- Utilizes 2 x MR4830N rectifiers (1.7kW n+1 redundant)
- Efficiency up to 93 % for lower operating cost
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- Pre-configured for small cell applications

AC Distribution		DC Distribution	
Input Mode	220 VAC single -phase	Output Voltage	-42 to -58VDC, rated value: -53.5VDC
Input Capacity	30A / 2 P x 1 terminal	Battery Breakers	65A/2P x 1 terminal
Input Frequency	45 to 66Hz, rated value: 50Hz / 60 Hz	Load Breakers	BLVD: 65A/2P x 3 terminals
Rectifier		Controller	
Input Voltage	85 to 290VAC, rated 220VAC	Signal Input	3 AI(2 Battery temp., 1 ambient temp.), 2 RS485, 7 DI*
Efficiency	> 93 %	Alarm Output	6 dry contact
Rated Power	1740 W (176 to 290 VAC)	Communication Port	RS485, SNMP*
Working Temperature	-10 °C to +75 °C (fully output below 45°C)	Display Mode	LCD*
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-40°C to +45°C
Cabling Mode	Front inlet and rear outlet	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95%(non-condensing)
Protection Level	IP20	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet power system. Customized design is available.

* LCD: Liquid Crystal Display

* DI: Digital Input

* BLVD: Battery Low Voltage Disconnection

* SNMP: Simple Network Management Protocol

Rectifier Subrack

IPU45K1-B3A32 2U / 90A

IPU45K1-B3A32 is a 19-inch subrack power system produced by Megmeet, with 2U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 90A, with AC /battery/load terminals. The cables are rear accessing with terminals.



Key Features

- Utilizes 3 x MR4830N rectifiers(3.4kW n+1 redundant)
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- Efficiency up to 93 % for lower poerating cost
- Pre-configured for small cell applications

AC Distribution		DC Distribution	
Input Mode	220VAC single-phase	Output Voltage	-42 to -58VDC, rated value: -53.5 VDC
Input Capacity	40A/2P x 1	Battery Breakers	63 A /1P x 1
Input Frequency	45 to 66Hz, rated value: 50Hz/60Hz	Load Breakers	BLVD*: 10A/1P x 2 + 16A/1P x 2+20A/1P x 2 + 40A/1P x 1
Rectifier		Controller	
Input Voltage	85 to 290VAC, rated 220VAC	Signal Input	2AI(1 battery temp., 1 ambient temp.), V1, 8 DI*
Efficiency	> 93%	Alarm Output	2 dry contact
Rated Power	1740W(176 to 290VAC)	Communication Port	RS485, SNMP*
Working Temperature	-10°C to +75°C(fully output below 45°C)	Display Mode	LCD*
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-40°C to +45°C
Cabling Mode	Rear inlet and rear outlet	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95%(non-condensing)
Protection Level	IP20	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet power system. Customized design is available.

* LCD: Liquid Crystal Display

* DI: Digital Input

* BLVD: Battery Low Voltage Disconnection

* SNMP: Simple Network Management Protocol

Rectifier Subrack

IPU424K-A7A659 5U300A

IPU424K-A7A659 is a 19-inch subrack power system produced by Megmeet, with 5U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 24kW, with AC input/battery/load MCBs. The cables are front accessing with MCB and busbar.



Key Features

- Upgradeable with MR484000 rectifiers(20kW n+1 redundant)
- Utilizes 6 x MR483000 rectifiers(18kW n+1 redundant) configuration
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- High efficiency up to 98% for lower operating cost

AC Distribution		DC Distribution	
Input Mode	380VAC three-phase	Output Voltage	-42 to -58VDC, rated value: -53.5VDC
Input Frequency	45 to 65Hz, rated value: 50Hz/60Hz	Maximum Capacity	24kW
Input Capacity	1 x 63 A / 4 P	Load Breakers	LLVD: 32A / 1P x 2 + 40 A / 1P x 2 + 63 A / 1P x 2 BLVD: 6A / 1P x 1 + 10 A / 1P x 2 + 16 A / 1P x 2
SPD *	20kA/40kA, 8/20μs	Battery Breakers	3 x 125 A 1P
Rectifier		Controller	
Input Voltage	85 to 290VAC, rated 220VAC	Signal Input	3 AI(2 Battery temp., 1 ambient temp.), 8 DI*
Efficiency	> 98%	Alarm Output	8 dry contact
Rated Power	3000W(176 to 290VAC)	Communication Port	Ethernet, SNMP*, ModBUS, RS485
Working Temperature	-10°C to +75°C(fully output below 55°C)	Display Mode	LCD*
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-40°C to +55°C
Cabling Mode	Top inlet and top outlet	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95%(non-condensing)
Protection Level	IP20	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* LCD: Liquid Crystal Display

* DI: Digital Input

* BLVD: Battery Low Voltage Disconnection

* LLVD: Load Low Voltage Disconnection

* SNMP: Simple Network Management Protocol

* SPD: Surge Protective Device

Rectifier Subrack

IPU436K-C5D1210 10U / 600A

IPU436K-C5D1210 is a 19-inch subrack power system produced by Megmeet, with 10U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 600A, with AC input/battery/load MCBs. The cables are front accessing with MCB and busbar.



Key Features

- Upgradable for MR484000 rectifiers(44kW n+1 redundant)
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- High efficiency up to 97% for lower operating cost
- Utilizes 12 x MR483000 rectifiers(33kW n+1 redundant)

AC Distribution		DC Distribution	
Input Mode	380VAC three-phase	Output Voltage	-42 to -58VDC, rated value: -53.5VDC
Input Capacity	125A/4P x 1	Battery Breakers	250A/1P x 3(125A/3P x 3)
Input Frequency	45 to 66Hz, rated value: 50Hz/60Hz	Load Breakers	LLVD*: 125A/1P x 2, 25A/1P x 1, 1 spare pos BLVD*: 125A/1P x 2, 6A/1P x 2
SPD*	20kA/40kA, 8/20μs	SPD*	10kA/20kA, 8/20μs
Rectifier		Controller	
Input Voltage	85 to 290VAC, rated 220VAC	Signal Input	4AI(2 battery temp., 1 ambient temp., oil), 1 RS485, 7 DI*
Efficiency	> 96%	Alarm Output	7 dry contact
Rated Power	3000W(176 to 290VAC)	Communication Port	RS485, SNMP*
Working Temperature	-10°C to +75°C(fully output below 55°C)	Display Mode	LCD*
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-40°C to +55°C
Cabling Mode	Top inlet and top outlet	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95%(non-condensing)
Protection Level	IP20	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet powers sytem. Customized design is available.

* LCD: Liquid Crystal Display

* DI: Digital Input

* LLVD: Load Low Voltage Disconnection

* SNMP: Simple Network Management Protocol

* BLVD: Battery Low Voltage Disconnection

* SPD: Surge Protective Device

Rectifier Subrack

IPU440K-A7A1069C 6U / 750A

IPU440K-A7A1069C is a 19-inch power system produced by Megmeet. The system's maximum power capacity is 40kW, with AC input/battery/load MCBs. All the cables are front accessing with MCB. Integrated smart breaker, have flexible control and maintenance plan.



Key Features

- Wide input voltage range: 85 to 290 VAC for rectifier
- Supports ethernet, SNMP*, ModBus and RS485 communication
- Integrate smart breaker, each Load precision control and flexible maintenance solution
- Rectifier and controller are hot pluggable, easy and quick on-line maintenance
- High efficiency up to 96% for lower operating cost

Input Distribution		Output Distribution	
Input Mode	380 VAC three-phase	Output Voltage	-42 to -58 VDC, rated value: -53.5 VDC
Input Capacity	13 × 57 A terminal 3 for L1, 2 for L2, 2 for L3, 6 for N)	Battery breakers	750A Copper bar with 4 * M10 screws
Input Frequency	45 to 65 Hz	Load Breakers	10 * 125A, 4 * 63 A
SPD*	20 kA / 40 kA, 8 / 20 μs	DC SPD *	10 kA / 20 kA, 8 / 20 μs
Rectifier		Controller	
Input Voltage	85 to 290 VDC, rated 220 VAC	Signal Input	3 AI (2 Battery temp, 1 ambient temp), 8 DI*
Efficiency	> 96%	Alarm Output	8 dry contact
Rated Power	4000 W (176 to 290 VAC)	Communication Port	Ethernet, SNMP*, ModBUS, Rs485
Working Temperature	-40 °C to +75°C (fully output below 45 °C)	Display Mode	LCD*
System		Environment	
Dimension (W x D x H)	482.6x350.6x265.3mm	Operating Temperature	-40°C to +65°C
Cooling Mode	Natural cooling	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95% (non-condensing)
Protection Level	IP20	Altitude	0 to 4000m (if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet power system. Customized design is available.

* SPD: Surge Protective Device

* DI: Digital Input

* LCD: Liquid Crystal Display

* DC SPD: Direct Current Surge Protective Device

Solar Subrack

IPU412K-AS1439 6U / 150A

IPU412K-AS1439 is a 19-inch subrack pure solar system produced by MEGMEET. 3U height compact design, can meet critical application scenario of fiber and microwave transmission, access devices, and switches. The system's maximum power capacity is 12 KW, with DC input/load MCBs. The cables are front accessing with MCB.



Key Features

- Wide input voltage range: 120 to 425VDC for MPPT*
- Supports ethernet, SNMP*, and ModBus communication
- MPPT and controller are hot pluggable, easy and quick on-line maintenance
- High efficiency up to 96% for lower operating cost

Input Distribution		Output Distribution	
Input Mode	120 VDC to 420 VDC	Output Voltage	-42 to -58 VDC, rated value: -54.5 VDC
Input Capacity	4 x 63 A / 2P	Battery breakers	/
Input Frequency	/	Load Breakers	5x63A / 1PN
SPD*	20 kA / 40 kA, 8 / 20 μs	DC SPD*	10kA / 20kA, 8 / 20 μs
Module		Controller	
Input Voltage	120 to 420 VDC, rated 340 VDC	Signal Input	3AI (2 Battery temp, 1 ambient temp), 8 DI*
Efficiency	> 96 %	Alarm Output	8 dry contact
Rated Power	3000W (200 to 425 VAC)	Communication Port	Ethernet, SNMP*, ModBUS, RS485
Working Temperature	-40 °C to +75 °C (fully output below 50 °C)	Display Mode	LCD*
System		Environment	
Dimension (W x D x H)	482.6 x 350.6 x 133.3 mm	Operating Temperature	-40°C to +65°C
Cooling Mode	Natural cooling	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95% (non-condensing)
Protection Level	IP20	Altitude	0 to 4000m (if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet power system. Customized design is available.

* SPD: Surge Protective Device

* MPPT: Maximum Power Point Tracking

* DI: Digital Input

* LCD: Liquid Crystal Display

* DC SPD: Direct Current Surge Protective Device

Solar Subrack

IPU49K-AS135 5U / 150A

IPU49K-AS135 is a 19-inch subrack for pure solar module power system produced by Megmeet, with 5U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 150A with DC input/battery/load MCBs. The cables are front accessing with MCB and busbar.



Key Features

- Wide input voltage range: 120 to 425 VDC for MPPT*
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- High efficiency up to 96% for lower operating cost
- Utilizes 3 x MS483000HG solar module (6kW n+1 redundant)

Input Distribution		Output Distribution	
Input Mode	120VDC to 425VDC	Output Voltage	-42 to -58VDC, rated value: -54.5VDC
Input Capacity	63A/2Px3	Battery Breakers	125A/1P x 2
Input Frequency	/	Load Breakers	LLVD: 16 A / 1 P x 1 + 10 A / 1 P x 3 BLVD: 16 A / 1 P x 1 + 10 A / 1 P x 3
SPD*	20kA/40kA, 8/20μs	SPD*	10kA/20kA, 8/20μs
Solar Module		Controller	
Input Voltage	120 to 425VDC, rated 340VDC	Signal Input	3 AI(2 battery temp., 1 ambient temp.), 2 RS485, 7 DI*
Efficiency	> 96%	Alarm Output	6 dry contact
Rated Power	3000W(200 to 425VDC)	Communication Port	RS485, SNMP*
Working Temperature	-10°C to +75°C(fully output below 55°C)	Display Mode	LCD*
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-40°C to +50°C
Cabling Mode	Top inlet and top outlet	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95%(non-condensing)
Protection Level	IP20	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet power system. Customized design is available.

* SPD: Surge Protective Device

* DI: Digital Input

* LCD: Liquid Crystal Display

* MPPT: Maximum Power Point Tracking

Solar Subrack

IPU49K-AS135A 5U / 150A

IPU49K-AS135A is a 19-inch subrack for pure solar module power system produced by Megmeet, with 5U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 150A with DC input/battery/load MCBs. The cables are front accessing with MCB and busbar.



Key Features

- Wide input voltage range: 58 to 165 VDC for MPPT*
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- High efficiency up to 97% for lower operating cost
- Utilizes 3 x MS483000SG1 solar module(6kW n+1 redundant)

Input Distribution		Output Distribution	
Input Mode	58 VDC to 165 VDC	Output Voltage	-42 to -58VDC, rated value: -54.5VDC
Input Capacity	63 A/ 2P x 3	Battery Breakers	125 A/ 2P x 1
Input Frequency	/	Load Breakers	LLVD*: 32A/1P x 1 + 10A/1P x 3 BLVD*: 32A/1P x 1 + 10A/1P x 3
SPD*	20kA/40kA, 8/20μs	SPD*	10kA/20kA, 8/20μs
Solar Module		Controller	
Input Voltage	58 to 165VDC, rated 100VDC	Signal Input	3 AI(2 battery temp., 1 ambient temp.), 2 RS485, 7 DI*
Efficiency	> 97%	Alarm Output	6 dry contact
Rated Power	3000W(70 to 165 VDC)	Communication Port	RS485, SNMP*
Working Temperature	-10°C to +75°C(fully output below 55°C)	Display Mode	LCD*
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-40°C to +55°C
Cabling Mode	Top inlet and top outlet	Storage Temperature	-40°C to +75°C
Maintenance Mode	Front maintenance	Operating Humidity	5% to 95% (non-condensing)
Protection Level	IP20	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)

* This is a standard Megmeet power system. Customized design is available.

* BLVD: Battery Low Voltage Disconnection * SPD: Surge Protective Device

* LLVD: Load Low Voltage Disconnection * DI: Digital Input

* LCD: Liquid Crystal Display * MPPT: Maximum Power Point Tracking

Hybird Subrack

IPUM3K-A5D139A 3U / 150A

IPUM3K-A5D139A is a 19-inch subrack hybrid power system produced by Megmeet, with 3U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power capacity is 9KW, with AC input/battery/load MCBs. All the cables are front access with MCB.



Key Features

- Wide input voltage range: 85 to 290 VAC for rectifier and 120 to 420 VDC for MPPT*
- Supports ethernet, SNMP*, and ModBus communication.
- Wide input voltage range: 120 to 425 VDC for MPPT*
- Rectifier, MPPT* and controller are hot pluggable, easy and quick on-line maintenance
- High efficiency up to 96% for lower operating cost

Input Distribution			Output Distribution		
	AC	DC		AC	DC
Input Mode	220 VAC single - phase	120 VDC to 420 VDC	Output Voltage	-42 to -58 VDC, rated value:-53.5 VDC	-42 to -58 VDC,rated value:-54.5 VDC
Input Capacity	1x63A / 2P	3x63A / 2P	Battery breakers	2 x 100 A / 1 PN	
Input Frequency	45 to 65Hz, rated value: 50Hz/60Hz	/	Load Breakers	BLVD*: 125 A / 1 PN x 1 LLVD*1: 10 A / 1 Pn x 1, 32 A / 1 PN x 1, reserve: 63 A / 1 PN x 1 LLVD*2: 32 A / 1 PN x 1, reserve: 63A / 1 PN x 1	
SPD *	20 kA / 40 kA, 8 / 20 μs		DC SPD*	10 kA / 20 kA, 8 / 20μs	
Module			Controller		
	Rectifier Module	Solar Module			
Input Voltage	85 to 290VAC, rated 220VAC	120 to 420VDC, rated 340VDC	Signal Input	3 AI (2 Battery temp, 1 ambient temp), 8 DI*	
Efficiency	> 96%	> 96%	Alarm Output	8 dry contact	
Rated Power	3000W (176 to 290VAC)	3000W (200 to 425VAC)	Communication Port	Ethernet, SNMP*, ModBUS, RS485	
Working Temperature	-40°C to +75°(fully output below 55°C)	-40°C to +75°(fully output below 50°C)	Display Mode	LCD*	
System			Environment		
Dimension(WxDxH)	482.6 x 350 x 131mm		Operating Temperature	-40°C to +65°C	
Cooling Mode	Natural cooling		Storage Temperature	-40°C to +75°C	
Maintenance Mode	Front maintenance		Operating Humidity	5% to 95% (non-condensing)	
Protection Level	IP20		Altitude	0 to 4000m (if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)	

* This is a standard Megmeet power system. Customized design is available.

* SPD: Surge Protective Device

* LCD: Liquid Crystal Display

* DI: Digital Input

* MPPT: Maximum Power Point Tracking

* DC SPD: Direct Current Surge Protective Device

Hybird Subrack

IPUM9K-A5D39A 9U / 150A

IPUM9K-A5D39A is a 19-inch subrack for hybrid power system produced by Megmeet, with 9U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 150A, with AC input / DC input / battery / load MCBs. The cables are front accessing with MCB and busbar.



Key Features

- Wide input voltage range: 85 to 290VAC for rectifier and 120 to 425VDC for MPPT*
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- Rectifier, MPPT and controller are hot pluggable, easy and quick on-line maintenance
- High efficiency up to 96% for lower operating cost

Input Distribution			Output Distribution		
	AC	DC		Rectifier	Solar Module
Input Mode	220VAC single-phase	120VDC to 425VDC	Output Voltage	-42 to -58VDC, rated value: -53.5VDC	-42 to -58VDC, rated value: -54.5VDC
Input Frequency	45 to 65Hz, rated value: 50Hz/60Hz	/	Battery Breakers	125A/2P	
Input Capacity	63A/2Px1	63A/2Px5	Load Breakers	LLVD: 32A/1P x 1, 10A/1P x 5; BLVD: 32A/1P x 2, 10A/1P x 5	
SPD*	20kA/40kA, 8/20μs		DC SPD *	20kA/40kA, 8/20μs	
Module			Controller		
	Rectifier Module	Solar Module			
Input Voltage	85 to 290VAC, rated 220VAC	120 to 425VDC, rated 340VDC	Signal Input	3 AI(2 battery temp., 1 ambient temp.), 2 RS485, 7 DI*	
Efficiency	> 96%	> 96%	Alarm Output	6 dry contact	
Rated Power	3000W(176 to 290VAC)	3000W(200 to 425VDC)	Communication Port	RS485, SNMP*	
Working Temperature	-10℃ to +75℃(fully output below 55℃)	-10℃ to +75℃(fully output below 50℃)	Display Mode	LCD *	
System			Environment		
Dimension(W x D x H)	482.6 x 350.6 x 397.7mm		Operating Temperature	-10℃ to +50℃	
Cooling Mode	Natural cooling		Storage Temperature	-40℃ to +75℃	
Maintenance Mode	Front maintenance		Operating Humidity	5% to 95%(non-condensing)	
Protection Level	IP20		Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m)	

* This is a standard Megmeet power system. Customized design is available.

* SPD: Surge Protective Device

* LCD: Liquid Crystal Display

* DC SPD: Direct Current Surge Protective Device

* DI: Digital Input

* MPPT: Maximum Power Point Tracking

Hybird Subrack

IPUM24K-A5D88 8U / 400A

IPUM24K-A5D88 is a 19-inch subrack for hybrid power system produced by Megmeet, with 8U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 400A, with AC input/DC input/battery/load MCBs. The cables are front accessing with MCB and busbar.



Key Features

- Wide input voltage range: 85 to 290VAC for rectifier and 120 to 425VDC for MPPT*
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- Rectifier, MPPT and controller are hot pluggable, easy and quick on-line maintenance
- High efficiency up to 96% for lower operating cost

Input Distribution			Output Distribution		
	AC	DC		Rectifier	Solar Module
Input Mode	380 VAC three-phase	120VDC to 425VDC	Output Voltage	-42 to -58VDC, rated value: -53.5VDC	-42 to -58VDC, rated value: -54.5VDC
Input Frequency	45 to 65Hz, rated value: 50Hz/60Hz	/	Battery Breakers	125A/1PN x 6	
Input Capacity	63A/4Px1	63A/2Px3	Load Breakers	LLVD: 125 A / 1 PN x 1, 63 A / 1 PN x 3; BLVD: 32 A / 1 PN x 3, 16 A / 1 PN x 3	
SPD*	20kA/40kA, 8/20μs		DC SPD*	10kA/20kA, 8/20μs	
Module			Controller		
	Rectifier Module	Solar Module			
Input Voltage	85 to 290VAC, rated 220VAC	120 to 425VDC, rated 340VDC	Signal Input	3 AI(2 battery temp., 1 ambient temp.), 2 RS485, 7 DI*	
Efficiency	> 96%	> 96%	Alarm Output	6 dry contact	
Rated Power	3000W(176 to 290VAC)	3000W(200 to 425VAC)	Communication Port	RS485, SNMP*	
Working Temperature	-10℃ to +75℃(fully output below 55℃)	-10℃ to +75℃(fully output below 50℃)	Display Mode	LCD *	
System			Environment		
Dimension(W x D x H)	482.6 x 350.6 x 353.3 mm		Operating Temperature	-10℃ to +50℃	
Cooling Mode	Natural cooling		Storage Temperature	-40℃ to +75℃	
Maintenance Mode	Front maintenance		Operating Humidity	5% to 95%(non-condensing)	
Protection Level	IP20		Altitude	0 to 4000m(if the altitude is within the range of 3000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m)	

* This is a standard Megmeet power system. Customized design is available.

* SPD: Surge Protective Device * DC SPD: Direct Current Surge Protective Device

* LCD: Liquid Crystal Display * DI: Digital Input

Hybird Subrack

IPUM27K-A5D979 7U / 27KW

PUM27K-A5D979 is a 19-inch subrack power system produced by Megmeet, with 7U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The cables are front accessing with terminals. This subrack supports hybrid insertion of both rectifier and photovoltaic modules, offering high flexibility for mixed power sources. It also supports system expansion, allowing additional input/output distribution through extended cabinets to meet higher power demands.



Key Features

Input Distribution			Output Distribution		
	AC	DC		Rectifier	Solar Module
Input Mode	380VAC three-phase	58VDC to 165VDC	Output Voltage	-42 to -58VDC, rated value:-53.5VDC	-42 to -58VDC, rated value:-54.5VDC
Input frequency	45 to 65Hz, rated value: 50/60Hz	/	Battery Breakers	8 × M8 battery terminals (mounted on cabinet)	
Power Distribution	Input: Subrack connects to copper bar; cabinet connects to a 4P 63A breaker Output: AC terminals for expansion	8 × 125A 1PN smart breakers	Load Breakers	8 × 125A 1PN smart breakers	
AC SPD*	Type B+C mounted on cabinet		DC SPD*	10 kA / 20 kA, Max 20 kA, 8 / 20μs	
Module			Controller		
	Rectifier Module	Solar Module			
Input Voltage	85 to 290VAC, rated 220VAC	58 to 165VDC, rated 100VDC	Signal Input	5AI(4 Battery temp, 1 ambient), 12 DI*	
Efficiency	>96%	>97%	Alarm Output	8 dry contact	
Rated Power	3000W(176 to 290VAC)	3000W(70 to 165VDC)	Communication Port	Ethernet, SNMP*, ModBUS, RS485	
Working Temperature	-40℃ to +75℃(fully output below 55℃)	-40℃ to +75℃(fully output below 55℃)	Display Mode	LCD*	
System			Environment		
Dimension(W×D×H)	482.6 × 505 × 308.5 mm		Operating Temperature	-10℃ to +45℃	
Cooling Mode	Natural cooling		Storage Temperature	-40℃ to +75℃	
Maintenance Mode	Front maintenance		Operating Humidity	5% to 95% (non-condensing)	
Protection Level	IP20		Altitude	0 to 4000m (if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m)	

* AC SPD: Alternating Current Surge Protective Device * DC SPD: Direct Current Surge Protective Device
* LCD: Liquid Crystal Display * DI: Digital Input

Hybird Subrack

IPUM39K-A5D1315A

IPUM39K-A5D1315 is a 19-inch subrack for hybrid power system produced by Megmeet, with 15U height compact designed to meet critical application needs of fiber and microwave transmission, access device, and switch. The system's maximum power is 650A, with AC input / DC input/ battery / load MCBs. The cables are front accessing with MCB and busbar.



Key Features

- Wide input voltage range: 85 to 290VAC for rectifier and 120 to 420VDC for MPPT
- Supports ethernet, SNMP*, ModBus and RS485 communication interfaces
- Rectifier, MPPT and controller are hot pluggable, easy and quick on-line maintenance
- High efficiency up to 96% for lower operating cost

Input Distribution			Output Distribution		
	AC	DC		AC	Solar
Input Mode	380VAC three-phase	120VDC to 420VDC	Output Voltage	-42 to -58VDC, rated value: -53.5VDC	-42 to -58VDC, rated value: -54.5VDC
Input Frequency	45 to 65Hz, rated value: 50Hz/60Hz	/	Battery Breakers	250A/1P×3(125A/3P×3)	
Input Capacity	125A/4P×1	63A/2P×6	Load Breakers	LLVD*: 125A/1P×2, 25A/1P×1, 1 spare pos BLVD*: 125A/1P×2, 6A/1P×2	
SPD *	20kA/40kA, 8/20μs		DC SPD*	10kA/20kA, 8/20μs	
Module			Controller		
	Rectifier Module	Solar Module	Alarm Output	7 dry contact	
Input Voltage	85 to 290VAC, rated 220VAC	120 to 420VDC, rated 340VDC	Signal Input	4 AI(2 battery temp., 1 ambient temp., oil), 1 RS485, 7 DI*	
Efficiency	> 96%	> 96%	Communication Port	RS485, SNMP*	
Rated Power	3000W(176 to 290VAC)	3000W(200 to 425VDC)	Display Mode	LCD*	
Working Temperature	-10℃ to +75℃(fully output below 55℃)	-10℃ to +75℃(fully output below 50℃)			
System			Environment		
Dimension(W x D x H)	482.6 x 350.6 x 664.5 mm		Operating Temperature	-40℃ to +50℃	
Cooling Mode	Natural cooling		Storage Temperature	-40℃ to +75℃	
Maintenance Mode	Front maintenance		Operating Humidity	5% to 95%(non-condensing)	
Protection Level	IP20		Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m)	

* This is a standard Megmeet power system. Customized design is available.

* SPD: Surge Protective Device * LCD: Liquid Crystal Display * DC SPD: Direct Current Surge Protective Device * BLVD: Battery Low Voltage Disconnection

* LLVD: Load Low Voltage Disconnection

Compact DC PDU

IPUPDU-DC

IPUPDU-DC subrack power supply, with 1U height compact designed meets critical application needs of fiber and microwave transmission, access device, and switch. The system maximum power is 200A. The cables are front accessing with MCB.



DC Input		DC Output	
Input Mode	-48VDC	Output Voltage	-48VDC
Input Capacity	200A max.	Breakers	63A/1PN x 5 + 32A/1PN x 5 + 16A/1PN x 5
System		Environment	
Cooling Mode	Natural cooling	Operating Temperature	-10°C to +50°C
Installation Mode	Installed on 19-inch rack or inside the cabinet	Relative Humidity	5% to 95%(no condensation)
Cabling Mode	Front inlet and outlet	Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)
Protection Level	IP20	DC SPD*	20kA I _{max} , 10kA I _{nom} , 8/20μs

* DC SPD: Direct Current Surge Protective Device

Compact DC PDU

IPUPD-200A1

The IPUPD-200A1 is a power distribution unit designed for both indoor and outdoor low-voltage DC power distribution systems. It fits into a 19-inch cabinet and serves as a distribution unit and surge protection device for a -48V DC power supply, offering 9 channels of output with built-in surge protection.



Key Features

- Standard 19-inch, 1U rack installation
- Supports 1-path input and 9-path output
- Each output channel equipped with MCB protection
- Equipped with fault remote signaling alarm interface

Operating Environment	
Temperature	-40°C to +55°C
Relative Humidity	5% to 100%
Altitude	≤ 4000 m
Technical Parameters	
Nominal Operating Voltage(Un)	-48VDC
Maximum Continuous Operating Voltage(Uc)	-75VDC
Input rated Load Current(IL)	200A max
Output rated Load Current(IL)	9-path outputs: 4*40A, 5*25A
Surge Protection Capability(8/20μs)	20KA(-48V - RTN), 20KA (RTN - PE*)
Cross-sectional Area of Connecting Terminal	Input: 10 mm² to 35 mm², Output: 1 mm² to 16 mm², Signaling: 0.2 mm² to 1.5 mm²
Cable Connection	Input: M6 Screw, Output: Cable plug-in
Grounding Screw	M6X12
Degree of Protection(IP Code)	IP20
Weight	3.2kg
Safety Standards	Complies with IEC/EN 62368-1
RoHS Standard	Compliant
Overall Dimensions(W×H×D)	482.6mm x 44mm x 147mm
Installation Dimensions	465±1mm×31.7mm(19" rack mount)

* PE: Protecting Earthing

Smart DC PDU

Smart DCDU-300A4

Introducing the Smart DCDU-300A1: a compact, 19-inch rack or wall-mounted power distribution unit with advanced electrical parameter acquisition, remote configuring and control, and robust protection functions. It supports up to 300A input with versatile DC load breakers and ensures reliable performance in extreme environmental conditions. Designed for seamless integration using MODBUS RTU over RS485, it's the perfect solution for modern power management needs.



Key Features

- Single Breaker Management: Collects and reports data on power, current, voltage, and temperature
- Remote configuring and control: Enables remote management of operating modes and parameters
- Protection function: Multiple protection mode, over voltage, under voltage, over temperature, over current, and short circuits
- Communication protocol: Uses MODBUS RTU over RS485 for northbound integration

System			
Dimension(W×D×H)	482.6mm x 326.8mm x 43.6mm	Cabling Mode	Front inlet(DC)
Weight	≤15kg	Protection Level	IP20
Installation Mode	Installed on 19-inch rack or wall mounted		
DC Distribution			
Input Mode	48VDC, max. 300A	DC SPD*	20kA I _{max} , 10kA I _{nom} , 8/20μs
DC Load Breakers	Max. quantity: 14*≤63A		
Environment			
Operating Temperature	-40°C to +60°C		
Storage Temperature	-40°C to +75°C		
Operating Humidity	0% to 95%(non-condensing)		
Altitude	0 to 4000m(if the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m)		

* DC SPD: Direct Current Surge Protective Device

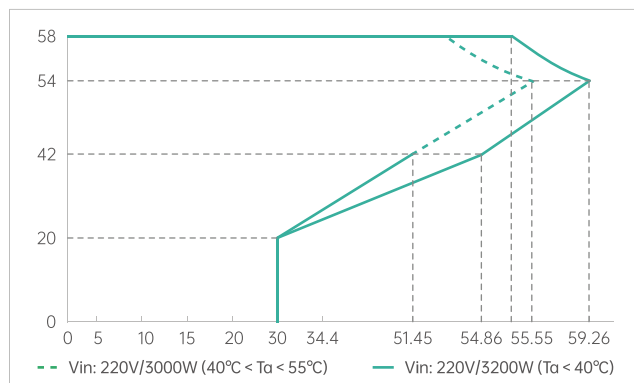
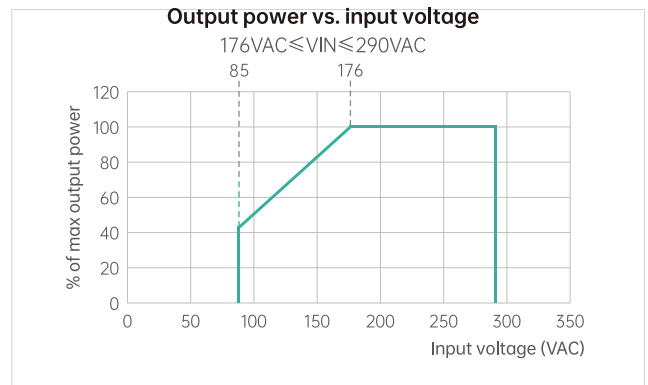
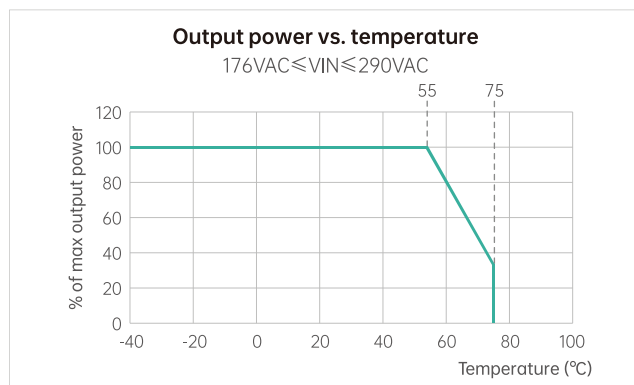
Outdoor PSU

PSU IPT483000ACOD

IPT483000ACOD is a new generation of high-efficiency outdoor telecom power supply in MEGMEET, It has IP55 waterproof rating, can be used in various harsh environments, It can support wall-mounted and pole , and is widely used in 4G/5G microstations and 5G AAU power supply system



AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -54VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	97±0.1%
Max Input Current	20A	Maximum Capacity	3000W
Input Frequency	45 to 65Hz	Maximum Output Current	56A
Maximum Number of Parallel Modules	4	DC Ports	4Loads(40A)+2Bats(80A)
Power Factor	≥0.99(220VAC @ 20% to 100%load)	THDI*	≤5% @ 50% to 100% load(200VAC)
Control and Monitoring		Environmental	
Communication Protocol	CAN*	EMC *	EN55032 class A; EN55035; IEC61000-3-2; IEC61000-3-3
LED	Green-normal; yellow-alarm; red-fault	Safety	CE、UL、UL-CB、UL62368-1; IEC62368-1, EN62368-1



* CAN: Controller Area Network

* THDI: Total Harmonic Distortion (for current)

* EMC: Electromagnetic Compatibility

Battery Pack

MPC48100

The MPC48100 is a 19-inch integrated lithium iron phosphate communication backup battery pack, with the height of 3U. The product has the characteristics of small size, light weight, battery self-maintenance and management, easy to use, energy saving and environmental protection. It is widely used in indoor and outdoor base stations, photovoltaic energy storage base stations, IDC computer room, household energy storage and other industries, such as micro base stations, macro base stations, photovoltaic energy storage base stations and micro grid energy storage, etc.



Key Features

- The CCS integrated is by FFC , which changes the messy distribution of traditional collection harnesses and improves assembly efficiency by 80%
- The battery cathode is made of lithium iron phosphate (LiFePO4) material, which has good safety performance and long cycle life
- Battery management adopts a high-performance BMS battery tube system, with advanced SOC algorithms to make capacity calculations more accurate
- Automated charge / discharge management and real-time data reporting allow the monitoring system to collect battery information accurately and instantly
- The system includes a current-limiting function to prevent electrical overloads and an automatic wake-up function for seamless operation
- Flexible configuration, multi-module can be used in parallel, prolonging the system backup time

Basic parameter		Communication	
Cooling Mode	Natural cooling	Alarm Output	2 Dry contact
Protection Level	IP20	Communication Port	RS485, RS232
Nominal Voltage	48 V	Parallel Mode	Manual dialing
Capacity	100 Ah	Display Mode	Upper computer
End of Charge Voltage	54 V	Environment	
Energy	4.8 kWh	Operating Temperature	Charging: 0 to +55 °C ; Discharging: -10 to +55 °C
Over Discharge Protection Voltage	40.5 V	Storage Temperature	-20 °C to +45 °C
Maximum Continuous Discharge Current	100 A (1c)	Operating Humidity	5 to 95% (non-condensing)
Anti-Theft Function	Optional gyroscope	Altitude	0 to 4000 m (If the altitude is within the range of 3000 to 4000 m, the maximum operating temperature decreases by +1 °C as the altitude increases by 200 m)
Charge Current (Current Limited)	10 A	Certification	
Cycle Life @ 70% SOH +25 °C& 0.5 C Charge / Discharge	4500 cycles	Standard	Designed according to IEC62619, IEC62368, EN300386, UN38.3 / MSDS

Battery Pack

MPC48150

The MPC48150 is a 19-inch integrated lithium iron phosphate communication backup battery pack, with the height of 3U. The product has the characteristics of small size, light weight, battery self-maintenance and management, easy to use, energy saving and environmental protection.

It is widely used in indoor and outdoor telecom sites, photovoltaic energy storage site, IDC, household energy storage and other industries, such as micro site, macro site, energy storage, etc.



Key Features

- The CCS integrated is by FFC , which changes the messy distribution of traditional collection harnesses and improves assembly efficiency by 80%.
- The battery cathode is made of lithium iron phosphate (LiFePO4) material, which has good safety performance and long cycle life.
- Battery management adopts a high-performance BMS battery tube system, with advanced SOC algorithms to make capacity calculations more accurate.
- Charge and discharge self-management, and real-time information reporting, make the back-end monitoring unit can timely and accurately collect the battery information.
- With current limiting function and automatic wake-up function Flexible configuration, multi-module can be used in parallel, prolonging the system backup time.

Basic Parameter		Communication	
Cooling Mode	Natural cooling	Alarm Output	2 Dry contact
Protection Level	IP20	Communication Port	2 RS485, SNMP*
Nominal Voltage	48V	Parallel Mode	Manual dialing
Capacity	150Ah	Display Mode	Upper computer
Weight	55kg	Anti-Theft Function	Gyroscope、GPS、GPRS*
Max End of Charge Voltage	54.75V	Environment	
Energy	7.2kWh	Operating Temperature	-20 °C to +55 °C
Over Discharge Protection Voltage	40.5V	Storage Temperature	-20 °C to +45 °C
Maximum Continuous Discharge Current	100A	Operating Humidity	5 % to 95 % (non-condensing)
Anti-Theft Function	Gyroscope	Altitude	0 to 4000 m (If the altitude is within the range of 3000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m.)
Charge Current (Current Limited)	10A	Certification	
Cycle Life @ 80% DOD 25°C, Remaining Capacity≥80%	6000 cycles	Standard	IEC62619 / CB, UN38.3/MSDS

* GPRS: General Packet Radio Service * SNMP: Simple Network Management Protocol

Model Specification Form of Megmeet Rectifier and Solar Module

Rectifier							
Model Name	MR4830N	MR482000HG	MR483000HG2B-GS	MR483000SG3-GS	MR483000SHG2	MR484000SG1-GS	MR484000SG2-GS
							
Operating Voltage	85 to 290VAC	85 to 290VAC	85 to 290VAC	85 to 290VAC	85 to 290VAC	85 to 290VAC	85 to 290VAC
Maximum Input Current	12.00A	13.00A	18.00A	18.00A	16.00A	26.00A	26.00A
Output Voltage Range	42 to 58VDC rated: 53.5VDC	42 to 58VDC rated: 53.5VDC	42 to 58VDC rated: 53.5VDC	-42 to -58 VDC rated: -53.5 VDC	42 to 58VDC rated: 53.5VDC	42 to 58VDC rated: 53.5VDC	42 to 58VDC rated: 53.5VDC
Maximum Capacity	1700W	2000W	3000W	3000W	3000W	4000W	4000W
Linear Power Derating	1766W (176 to 290VAC)	2000W (176 to 290VAC)	3000W (176 to 290VAC)	3000W (176 to 290VAC)	3000W (176 to 290VAC)	4350W (200 to 290VAC)	4350W (200 to 290VAC)
	800W (175 to 85VAC)	2000 to 830W (176 to 85VAC)	3000 to 1250W (175 to 85VAC)	1200W (176 to 85VAC)	3000 to 1250W (175 to 85VAC)	4000W (176 to 200VAC) 4000 to 1600W (176 to 85VAC)	4000W (176 to 200VAC) 4000 to 1600W (176 to 85VAC)
Maximum Output Current	33.00A	41.70A	56.10A	62.50A	62.50A	81.30A	81.30A
Peak Efficiency	>94%	>96%	>96%	>97%	98±0.1%	>96.5%	≥97%
Dimension (H x W x D)	41.5mm x 96.9mm x 230.1mm	41.5mm x 106.4mm x 291mm					
Certification E Safety	 EN62368-1; IEC62368-1	 UL62368-1; EN62368-1; IEC62368-1					
EMC*	EN55032 class A EN55035 IEC61000-3-2 IEC61000-3-3	EN55032 class B EN55035 IEC61000-3-2 IEC61000-3-3	EN55032 class B EN55035 IEC61000-3-2 IEC61000-3-3	EN55032 class B EN55035 IEC61000-3-2 IEC61000-3-3	EN55032 class B EN55035 IEC61000-3-11 IEC61000-3-12	EN55032 class B EN55035 IEC61000-3-11 IEC61000-3-12	EN55032 class B EN55035 IEC61000-3-11 IEC61000-3-12

Solar Module			
Model Name	MS483000HG	MS483000SG1	MS484000SG-GS
			
Operating Voltage	120 to 420VDC	58 to 150VDC	120 to 420VDC
Maximum Input Current	17.00A	46.00A	24.00A
Output Voltage Range	42 to 58VDC, rated: 54.5VDC	42 to 58VDC, rated: 54.5VDC	-42 to -58 VDC, rated: -54.5 VDC
Maximum Capacity	3000W	3000W	4350W
Linear Power Derating	3000W(200 to 420VDC); 3000 to 1800W(200 to 120VDC)	3000W(70 to 165VDC); 3000 to 1508W(70 to 58V)	4000W (200 to 425VDC); 4000 to 1600W (200 to 120VDC)
Maximum Output Current	62.50A	52.00A	81.30A
Peak Efficiency	96%	97%	96.5%
Dimension (H x W x D)	41.5mm x 106.4mm x 291mm	41.5mm x 106.4mm x 291mm	41.5mm x 106.4mm x 291mm
Certification E Safety	 EN62368-1, IEC62368-1	Designed according to IEC/EN62109-1, IEC/EN62368-1 standards	 EN62368-1, IEC62368-1
EMC*	EN55032 CE class B; RE EN55035; IEC61000-3-2; IEC61000-3-3	EN55032 CE class B; RE EN55035; EN55032 RE class A	EN55032 CE class A; RE class B; IEC61000-4-5

* EMC: Electromagnetic Compatibility

Rectifier

MR4830N

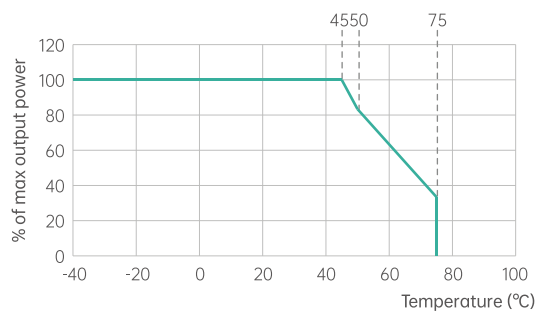


- Maximum efficiency > 94%
- Power derating from 45°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 176VAC

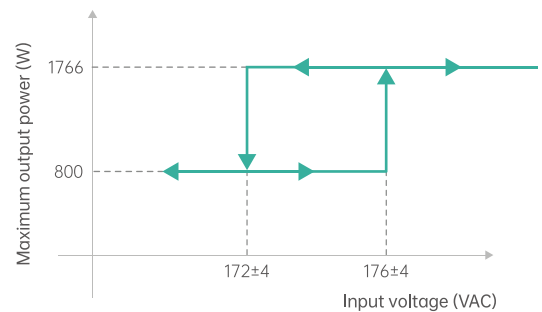
AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	> 94%
Max Input Current	12A	Maximum Capacity	1700W
Input Frequency	45 to 65Hz	Maximum Output Current	33A
Power Factor	≥0.99(220VAC @ 30A)	THD*	≤10% @ 30% to 100% load
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC *	EN55032 class A; EN55035; IEC61000-3-2; IEC61000-3-3
LED	Green-normal; yellow-alarm; red-fault	Safety	EN62368-1; IEC62368-1

Output power vs. temperature

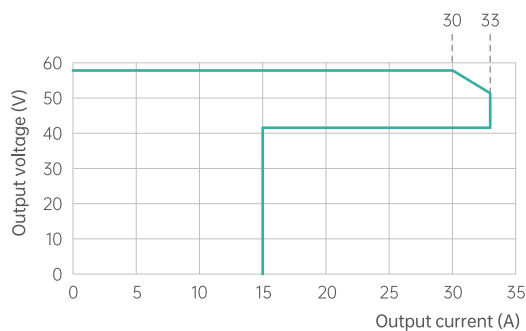
176VAC ≤ VIN ≤ 290VAC



Output power vs. input voltage

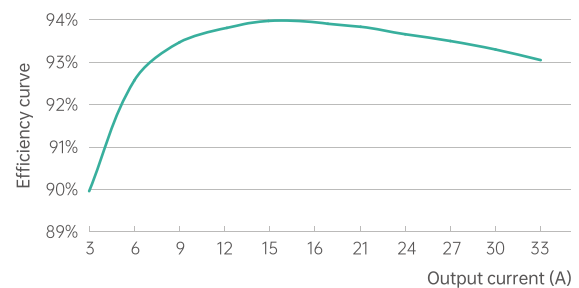


Output voltage vs. output current



Efficiency curve

220VAC



* THD: Total Harmonic Distortion
* EMC: Electromagnetic Compatibility

* CAN: Controller Area Network

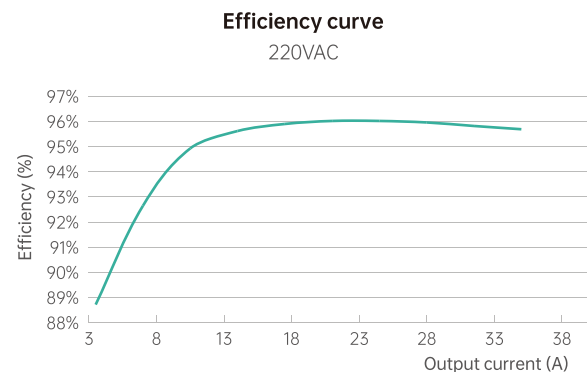
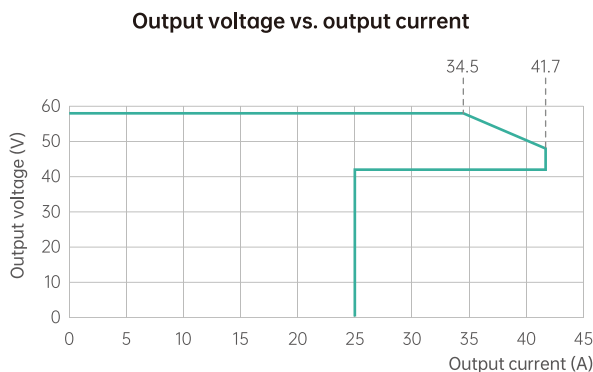
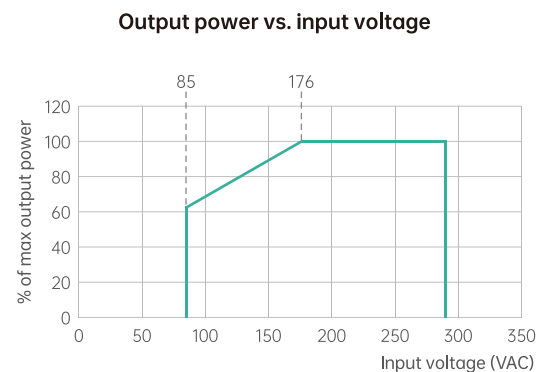
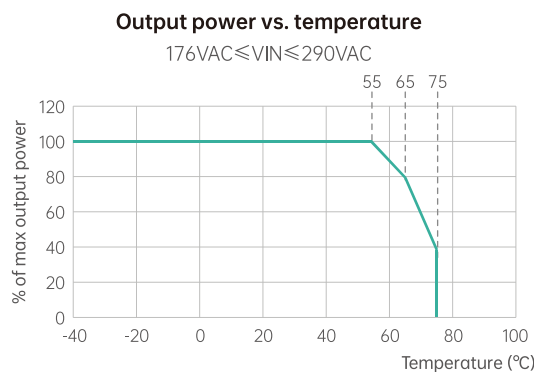
Rectifier

MR482000HG



- Maximum efficiency > 96%
- Power derating from 55°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 176VAC

AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	> 96%
Max Input Current	13A	Maximum Capacity	2000W
Input Frequency	45 to 65Hz	Maximum Output Current	41.7A
Power Factor	≥0.99(220VAC @ 30% to 100% load)	THD*	≤5% @ 50% to 100% load
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC*	EN55032 class B; EN55035; IEC61000-3-2; IEC61000-3-3
LED	Green-normal; yellow-alarm; red-fault	Safety	UL62368-1; EN62368-1; IEC62368-1



* THD: Total Harmonic Distortion
* EMC: Electromagnetic Compatibility

* CAN: Controller Area Network

Rectifier

MR483000HG2B-GS

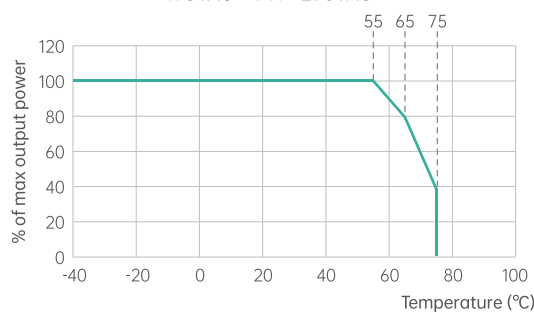


- Maximum efficiency > 96%
- Power derating from 55°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 176VAC

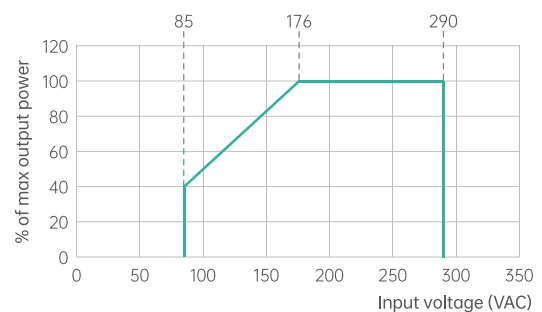
AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	> 96%
Max Input Current	18A	Maximum Capacity	3000W
Input Frequency	45 to 65Hz	Maximum Output Current	56.1A
Power Factor	≥0.99(220VAC @ 20% to 100% load)	THD*	≤5% @ 50% to 100% load(220VAC)
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC *	EN55032 class B; EN55035; IEC61000-3-2; IEC61000-3-3
LED	Green-normal; yellow-alarm; red-fault	Safety	UL62368-1; EN62368-1; IEC62368-1

Output power vs. temperature

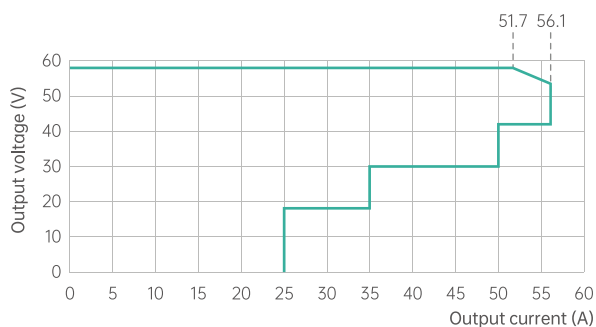
176VAC ≤ VIN ≤ 290VAC



Output power vs. input voltage

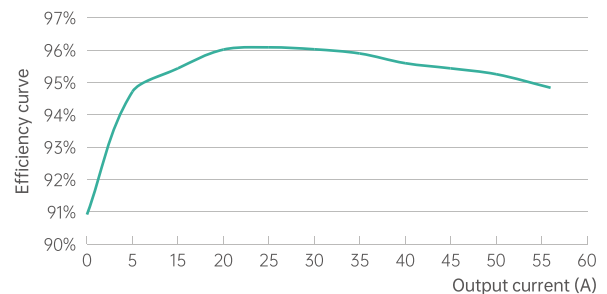


Output voltage vs. output current



Efficiency curve

220VAC



* THD: Total Harmonic Distortion
* EMC: Electromagnetic Compatibility

* CAN: Controller Area Network

Rectifier

MR483000SG3-GS

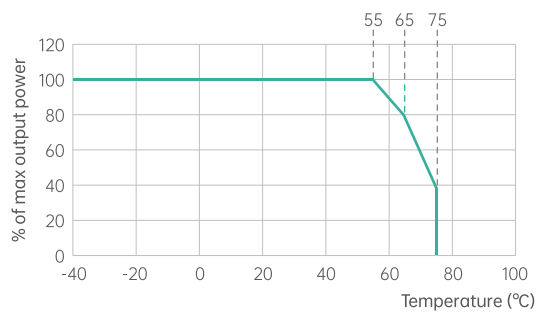


- Maximum efficiency > 97%
- Power derating from 55°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 176VAC

AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	> 97%
Max Input Current	18A	Maximum Capacity	3000W
Input Frequency	45 to 65 Hz	Maximum Output Current	62.5A
Power Factor	≥0.99(220VAC @ 30% to 100% load)	THD*	≤5% @ 50% to 100% load(220VAC, 50Hz)
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC*	EN55032 class B; EN55035; IEC61000-3-2; IEC61000-3-3
LED	Green-normal; yellow-alarm; red-fault	Safety	UL62368-1; EN62368-1; IEC62368-1

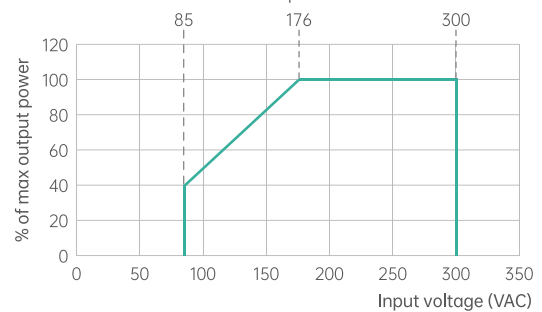
Output power vs. temperature

176VAC ≤ VIN ≤ 300VAC

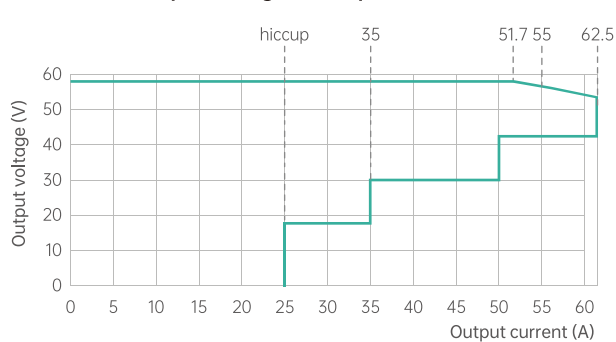


Output power vs. input voltage

-40°C ≤ Temp ≤ 55°C

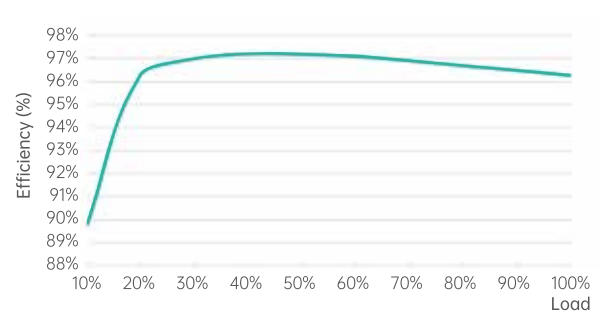


Output voltage vs. output current



Efficiency curve

230VAC 50Hz/53.5VDC



* THD: Total Harmonic Distortion
* EMC: Electromagnetic Compatibility

* CAN: Controller Area Network

Rectifier

MR483000SHG2

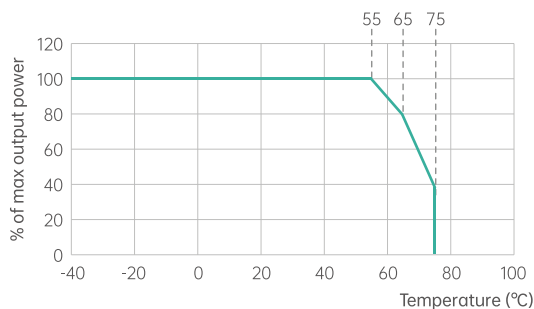


- Maximum efficiency > 98%
- Power derating from 55°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 176VAC

AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	98±0.1%
Max Input Current	16A	Maximum Capacity	3000W
Input Frequency	45 to 66Hz	Maximum Output Current	62.5A
Power Factor	≥0.99(220VAC @ 50% to 100% load)	THD *	≤5% @ 50% to 100% load(220VAC)
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC *	EN55032, classB
LED	Green-normal; yellow-alarm; red-fault	Safety	CE, UL, UL-CB, UL62368-1; EN62368-1; IEC62368-1

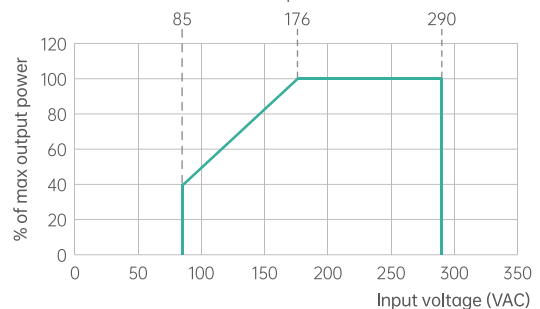
Output power vs. temperature

175VAC ≤ VIN ≤ 290VAC

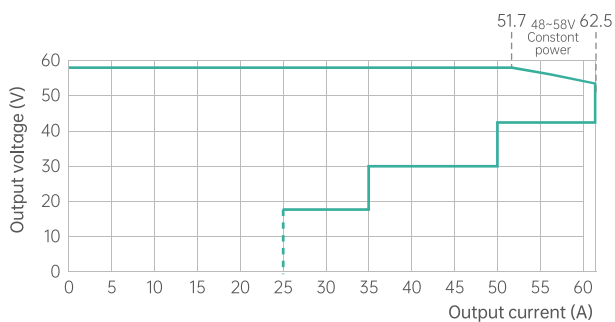


Output power vs. input voltage

-40°C ≤ Temp ≤ 55°C

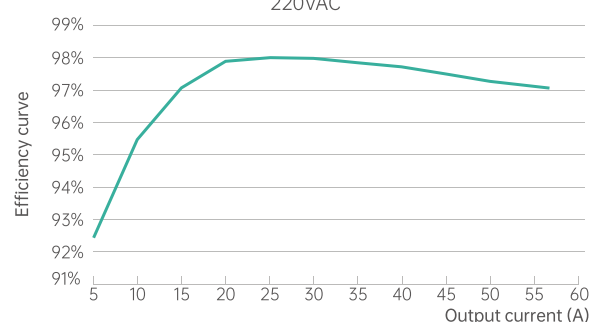


Output voltage vs. output current



Efficiency curve

220VAC



* THD: Total Harmonic Distortion

* CAN: Controller Area Network

* EMC: Electromagnetic Compatibility

Rectifier

MR484000SG1

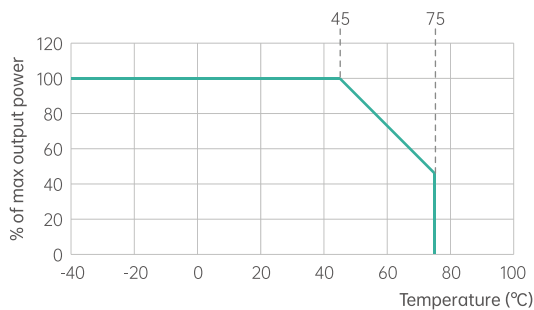


- Maximum efficiency > 96.5%
- Power derating from 45°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 176VAC

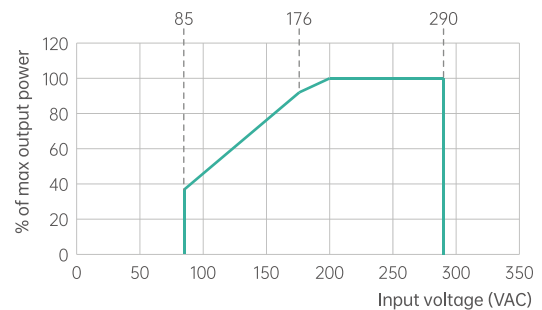
AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	> 96.5%
Max Input Current	26A	Maximum Capacity	4350W
Input Frequency	45 to 65Hz	Maximum Output Current	81.3A
Power Factor	≥0.99(220VAC @ 20% to 100% load)	THD*	< 3% @ ≥50% load(220VAC)
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC*	EN55032 class B; EN55035; IEC61000-3-11; IEC61000-3-12
LED	Green-normal; yellow-alarm; red-fault	Safety	UL62368-1; EN62368-1; IEC62368-1

Output power vs. temperature

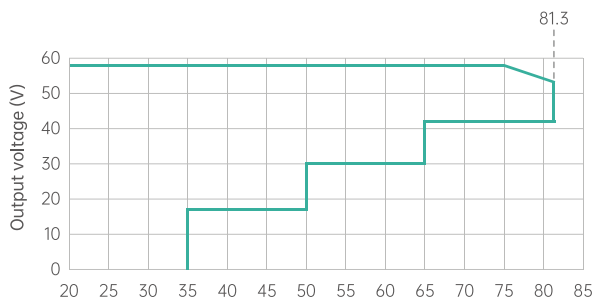
176VAC ≤ VIN ≤ 290VAC



Output power vs. input voltage

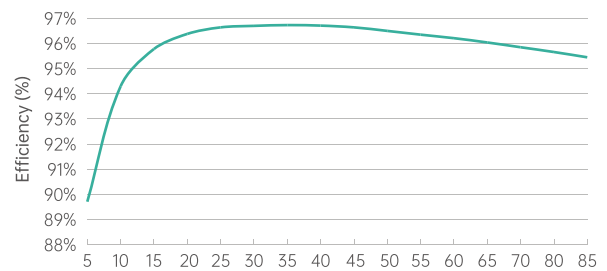


Output voltage vs. output current



Efficiency curve

220VAC



* THD: Total Harmonic Distortion

* CAN: Controller Area Network

* EMC: Electromagnetic Compatibility

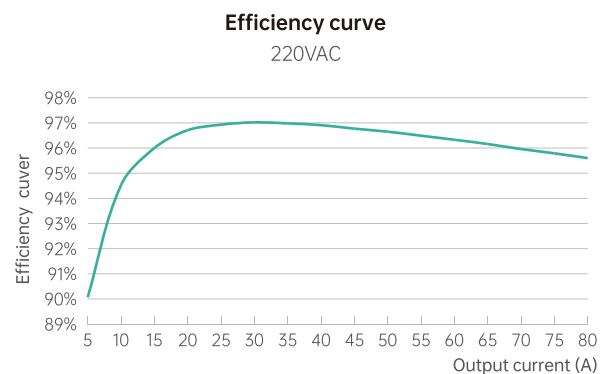
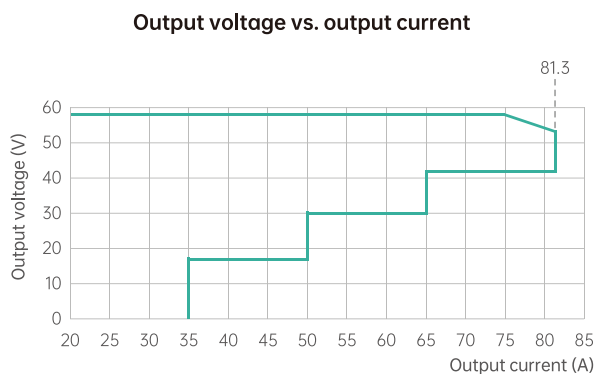
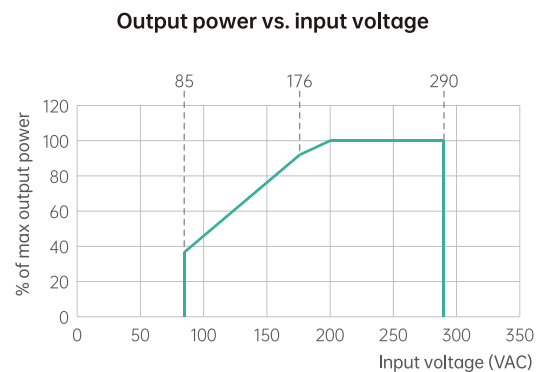
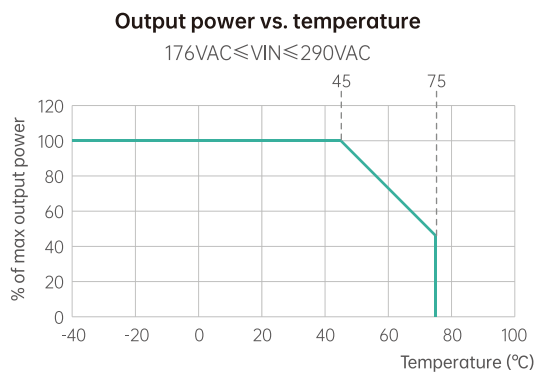
Rectifier

MR484000SG2-GS



- Maximum efficiency > 97%
- Power derating from 45°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 176VAC

AC Input		DC Output	
Input Voltage(Nominal)	110VAC / 220VAC	Output Voltage	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	Peak Efficiency	97%±0.1%
Max Input Current	26A	Maximum Capacity	4350W
Input Frequency	45 to 65Hz	Maximum Output Current	81.3A
Power Factor	≥0.99(220VAC @ 20% to 100% load)	THD*	< 3% @ ≥50% load(220VAC)
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC*	EN55032 class B; EN55035; IEC61000-3-11; IEC61000-3-12
LED	Green-normal; yellow-alarm; red-fault	Safety	UL62368-1; EN62368-1; IEC62368-1



* THD: Total Harmonic Distortion
* EMC: Electromagnetic Compatibility

* CAN: Controller Area Network

Solar Module

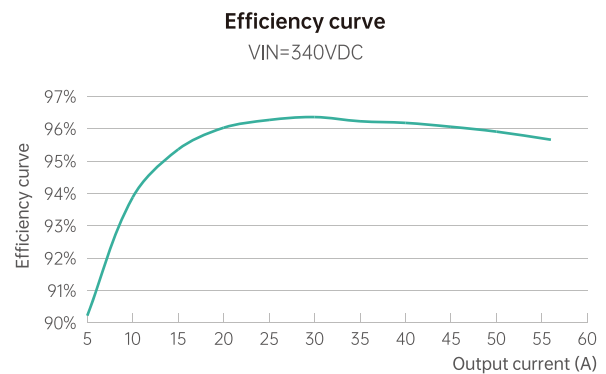
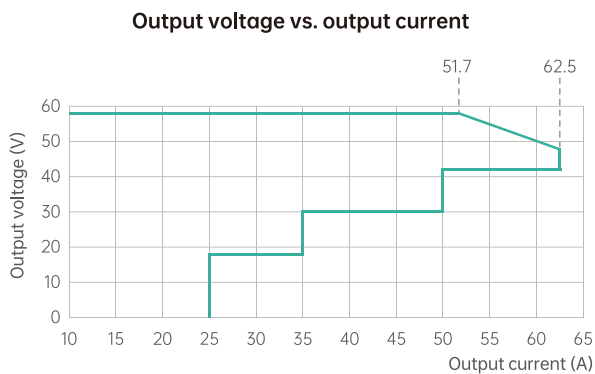
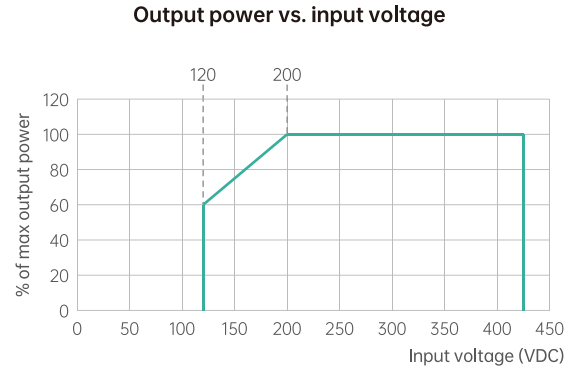
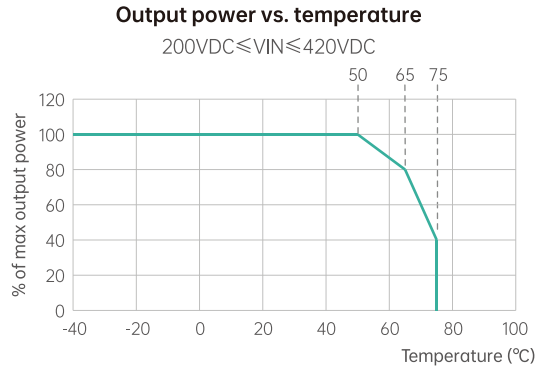
MS483000HG



CE CB

- Maximum efficiency > 96%
- Power derating from 50°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 200VDC

PV Input		DC Output	
Input Voltage Range	120 to 425VDC, rated: 340VDC	Output Voltage	-43.2 to -58VDC, rated: -54.5VDC
MPPT Voltage Range	120 to 340VDC	Peak Efficiency	> 96%
Max Input Current	17A	Maximum Capacity	3000W
MPPT Accuracy	≥0.99 @ load ≥400W	Maximum Output Current	62.5A
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC*	EN55032 CE class A; RE class B; EN55035; IEC61000-3-2; IEC61000-3-3
LED	Green-normal; yellow-alarm; red-fault	Safety	EN62368-1; IEC62368-1



* EMC: Electromagnetic Compatibility * CAN: Controller Area Network

Solar Module

MS483000SG1

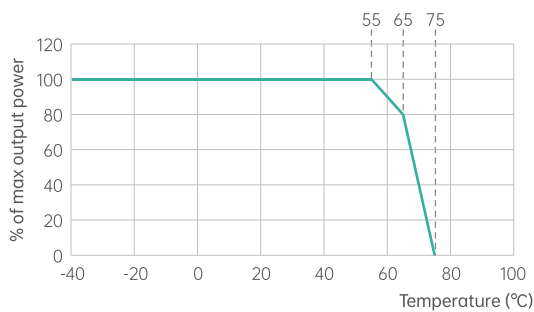


- Maximum efficiency > 97%
- Power derating from 55°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 70VDC
- A side: gold finger, B Side: front panel

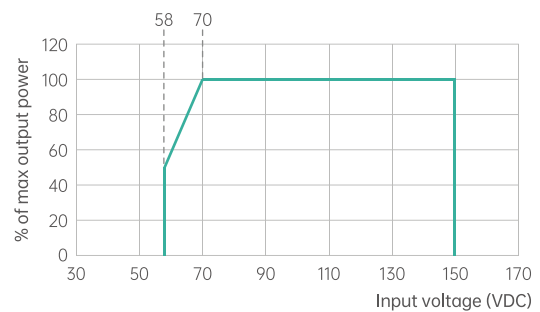
PV Input		DC Output	
Input Voltage Range	58 to 150VDC , rated: 100VDC	Output Voltage	-43.2 to -58VDC, rated: -54.5VDC
MPPT Voltage Range	58 to 120VDC	Peak Efficiency	> 97%
Max Input Current	46A	Maximum Capacity	3000W
MPPT Accuracy	≥0.99 @ load ≥400W	Maximum Output Current	52A
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC*	EN55032 RE class A
LED	Green-normal; yellow-alarm; red-fault	Safety	Designed according to IEC/EN62109-1; IEC62368-1 will be implemented in the future

Output power vs. temperature

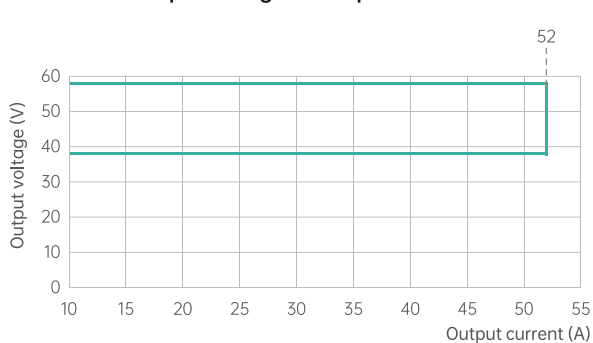
70VDC ≤ VIN ≤ 165VDC



Output power vs. input voltage

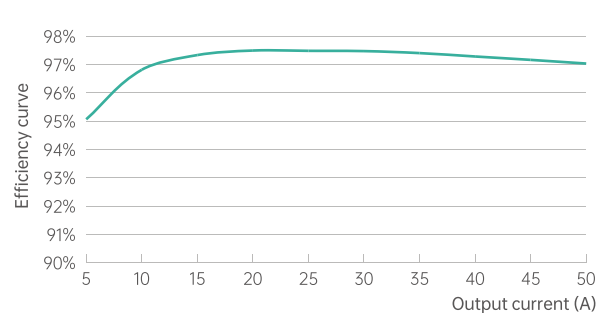


Output voltage vs. output current



Efficiency curve

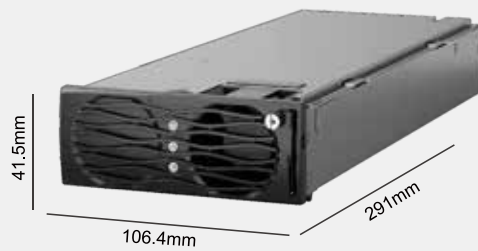
VIN=100VDC



* EMC: Electromagnetic Compatibility * CAN: Controller Area Network

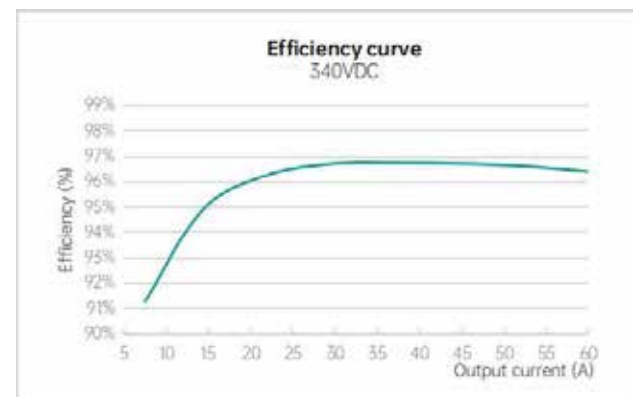
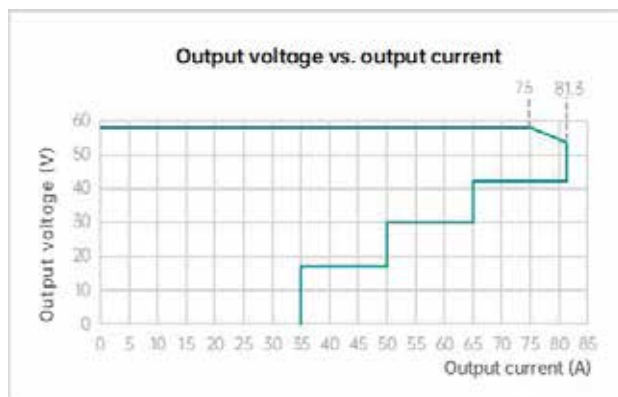
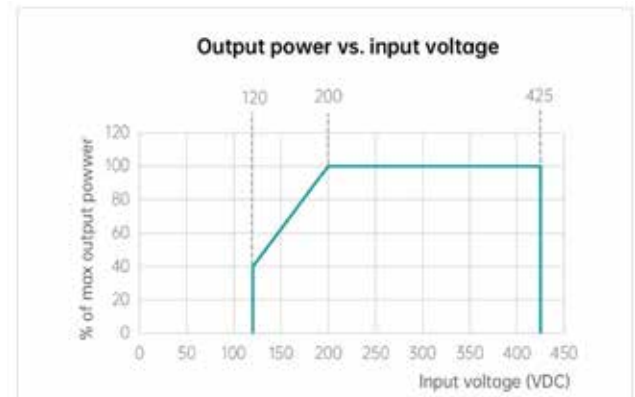
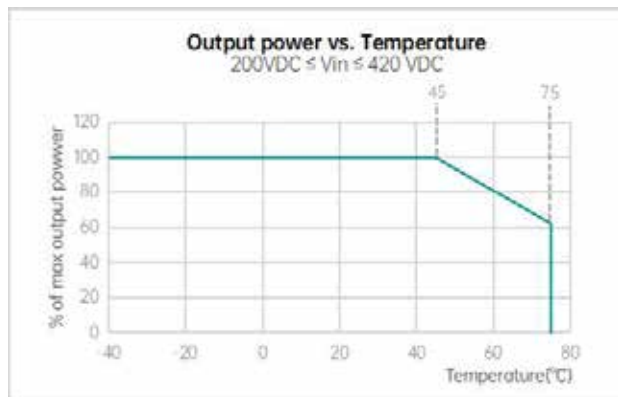
Solar Module

MS484000SG-GS



- Maximum Efficiency: > 96.5%
- Power derating from 45°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 200VDC

PV Input		DC Output	
Input Voltage Range	120 VDC to 425 VDC, rated: 340 VDC	Output Voltage Peak	-42 to -58 VDC, rated: -54.5
MPPT* Voltage Range	120 VDC to 340 VDC	Efficiency Maximum	VDC > 96.5%
Max input current	24 A	Capacity	4350 W
MPPT* Accuracy	0.99@load 500 W	Maximum Output Current	81.3 A
Control and Monitor		Environment	
Communication Protocol	CAN*	EMC *	EN55032 CE class A; RE class B ; IEC61000-4-5
LED	Green - Normal; Yellow - Alarm; Red - Fault	Safety	EN62368-1; IEC62368-1



* MPPT: Maximum Power Point Tracking * EMC: Electromagnetic Compatibility
* CAN: Controller Area Network

Bidirectional DC-DC Module

IPT573000DCG1

IPT573000DCG1 is a bidirectional DC-DC module. According to the flow of energy, the direction is specified as follows: A side refers to the gold finger side of the module, and B side refers to the module panel side.



- 48VDC power bidirectional conversion
- Power derating from 55°C to 75°C
- Operation temperature: -40°C to 75°C
- Peak module efficiency: 98±0.3%

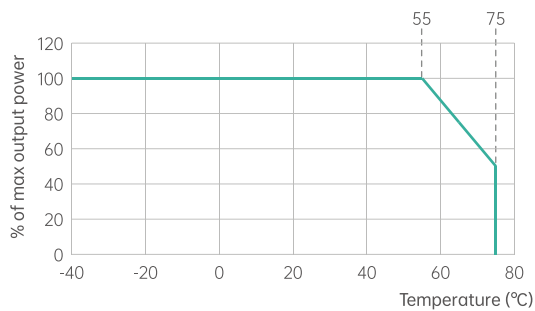
A side → B side		B side → A side	
Input Voltage Range	37 to 60VDC, rated: 53.5VDC	Input Voltage Range	40 to 60VDC, rated: 53.5VDC
Rated Output Voltage	Rated 53.5 VDC/57VDC	Rated Output Voltage	Rated 53.5VDC/57VDC
Output Voltage Range	42 to 60VDC	Output Voltage Range	42 to 60VDC
Rated Output Current	Rated: 56.1A/52A	Rated Output Current	Rated: 56.1A/52A
Maximum Output Current	62.5A(adjustable)	Maximum Output Current	62.5A(adjustable)
Output Maximum Power	3000W	Output Maximum Power	3000W

Control and Monitor		Environment	
Communication Protocol	CAN	EMC *	EN55032
LED	Green-normal; yellow-alarm; red-fault	Safety	Designed according to IEC/EN62368-1 standards

* EMC: Electromagnetic Compatibility

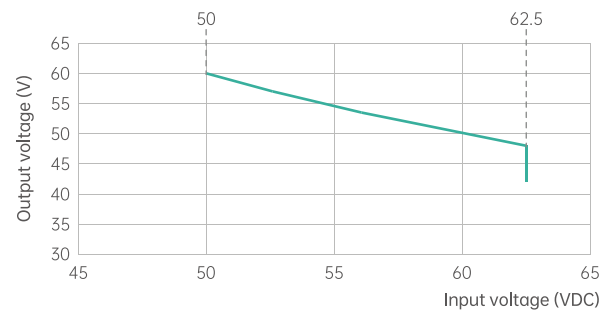
Output power vs. temperature

$48\text{VDC} \leq V_{\text{IN}} \leq 60\text{VDC}$



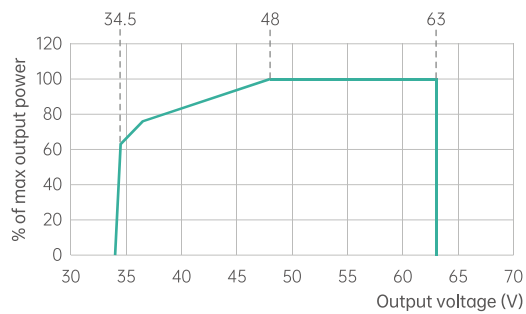
Output power vs. input voltage

Max.output power 3000W



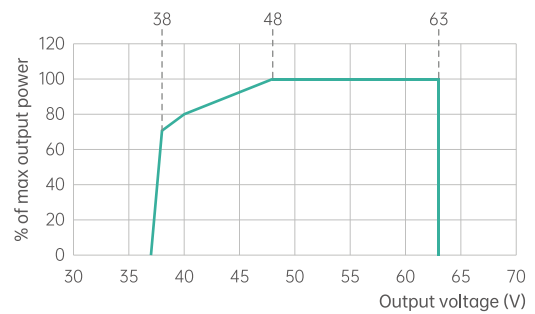
Output power vs. output current

A → B

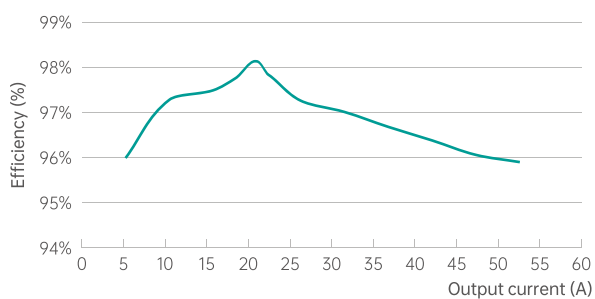


Output power vs. output current

B → A



Efficiency curve



Multi-Mode Inverter Module

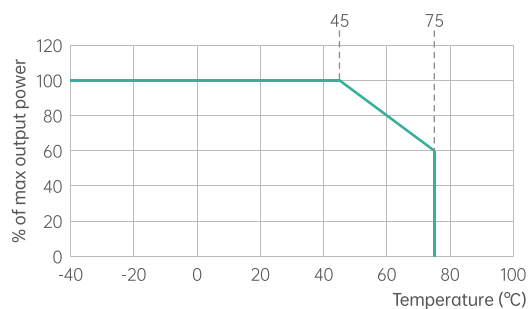
IPI2302000G2A



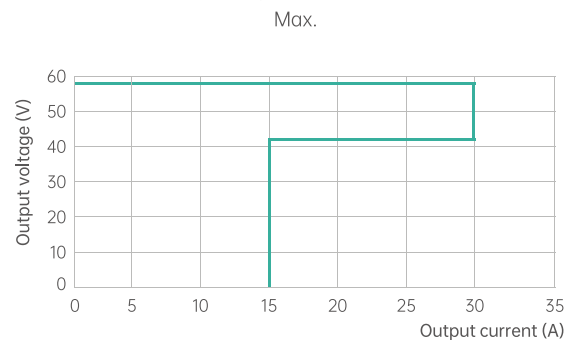
- Maximum efficiency > 94%
- Power derating from 45°C to 75°C
- Operation temperature: -40°C to 75°C
- Output power derating at < 48VDC

DC Input		AC Input	
Input Mode	/	Input Mode	TT/TN/IT
Input Voltage Range	42 to 58VDC, rated: 53.5VDC	Input Voltage Range	187 to 275VAC, rated: 220VAC
Max Input Current	62.5A(RMS)	Max Input Current	22A
Peak Efficiency	AC OUT: 92%	Peak Efficiency	DC OUT: 90%; AC OUT: 94%
Starting Impulse Current	< 45A	Starting Impulse Current	< 15A
Output			
Output Voltage Range	AC: 220VAC or 230VAC	Load Power Factor	0.65 lag to 0.9 lead
Max Output Current	≤15A(RMS)	Voltage Regulation Accuracy	AC OUT: ≤±1%; DC OUT: ≤±0.6%
Frequency	50Hz±0.1Hz or 60Hz±0.1Hz	THD *	<3% @ pure resistive load(220VAC)
Control and Monitor		Environment	
Communication Protocol	CAN *	EMC *	EN55032, class A
LED	Green-normal; yellow-alarm; red-fault	Safety	IEC62368, UL62368

Output power vs. temperature

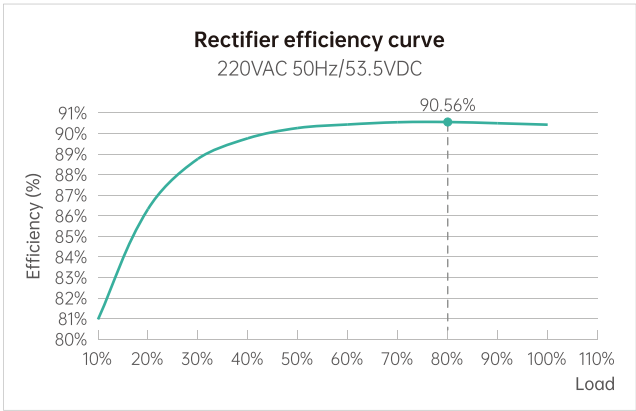
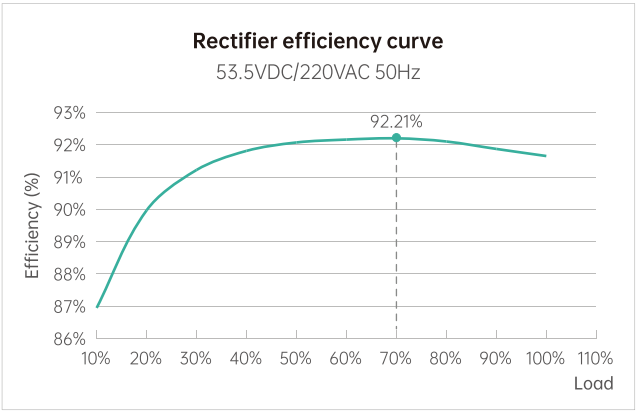
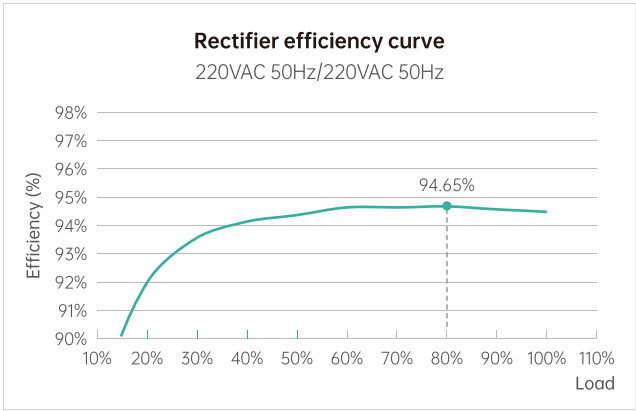
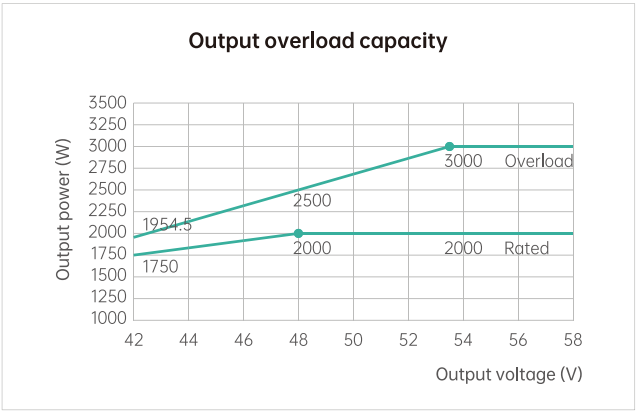
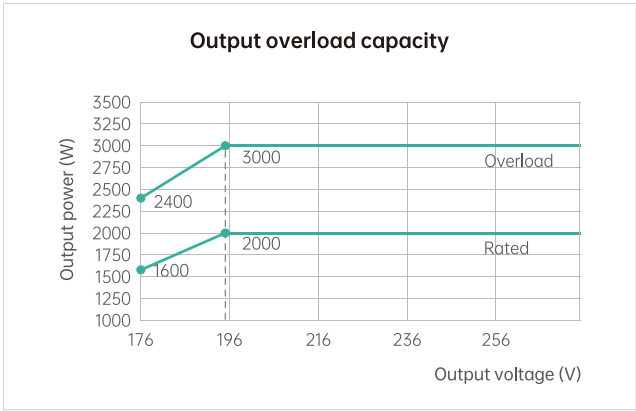


Output voltage vs. output current



* EMC: Electromagnetic Compatibility

* CAN: Controller Area Network



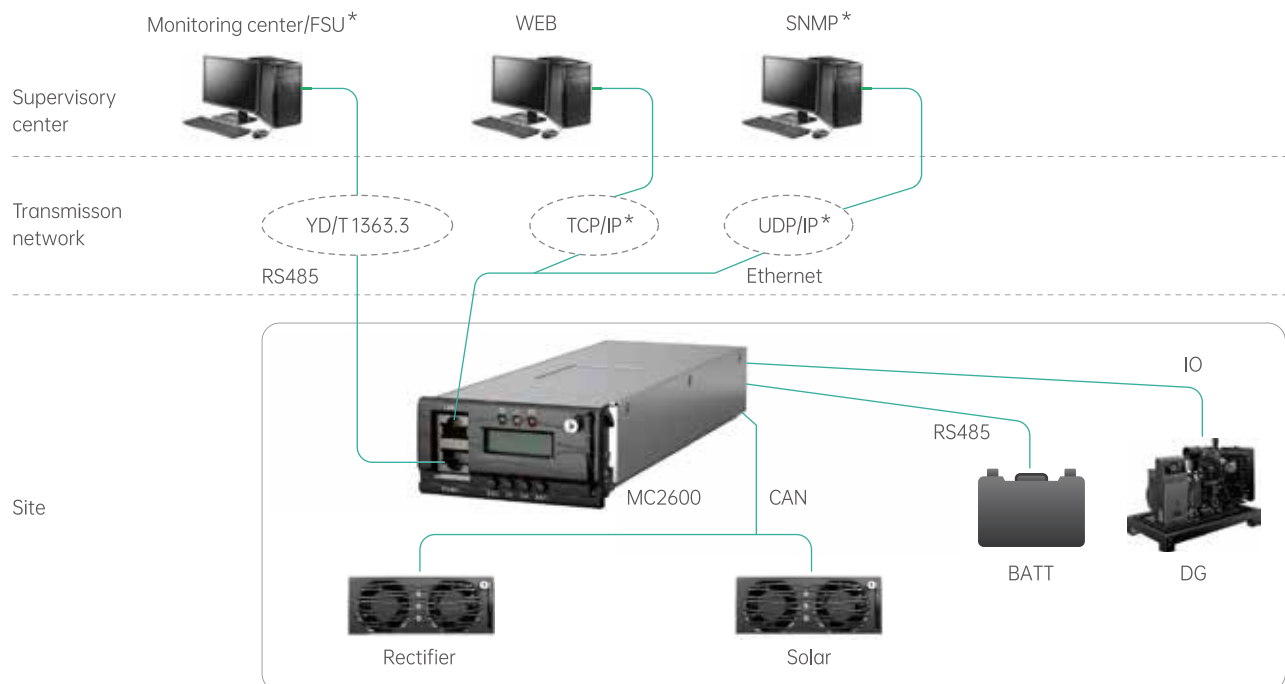
MC2600 Controller

MC2600 is the new generation DC power controller developed by Megmeet. The controller adopts ARM 32-bit cortex-M4 CPU as primary processor. MC2600 offers many features and functions, and a more robust, user-friendly, and easy-to-use interface. Powerful hybrid power management function including diesel management, VRLA and lithium-ion batteries, and solar modules.



Key Features

- Automatic battery test including advanced scheduled test, constant test and short test
- Lower operating cost due to energy saving standby function for rectifier
- Minimize installation time using configuration file upload feature
- Managing from 1 to 40 rectifiers



* UDP/IP: User Datagram Protocol/Internet Protocol
 * TCP/IP: Transmission Control Protocol/Internet Protocol
 * FSU: Field Supervision Unit
 * SNMP: Simple Network Management Protocol

Measurement

24 x Analog & 9 x digital input readings including: system voltage, load current, battery current, battery temperature, 8*DI*, 8*DO, etc.

Communication

The controller communicates with the host computer in 2 modes: RS485 and ethernet (WEB or SNMP*). Setting and editing operational parameters, downloading data logs and history alarm are available via WEB browser. Communication between the controller and the rectifiers and the solar modules utilizes CAN* communication.

SNMP* protocol supports GET, SET and TRAP 2 x RS485 ports for battery BMS*, HEX or extension function device

Alarm History Log

1000 event alarm history log, FIFO for system analysis

System Status Log

1000 records of output voltage and load current readings, and 50 records of historical battery test readings

LCD & LED

128 x 32 LCD* screen display to access status, alarms, user settings; green/yellow/red LEDs indicate operation status and alarms

Battery Management

- Float/Boost charge
- Battery test
- Temperature compensation

- Battery capacity prediction
- Low voltage/cap disconnection
- Low/high temperature disconnection

Module Management

- Manages multiple Megmeet rectifier, solar module within one system

- Equalize rectifier run time for lifetime optimization
- Optimize number of active rectifiers for highest efficiency

Alarms/Events

• SPD* alarm	• Battery fuse alarm	• Rectifier AC input failure	• Solar module communication fail
• Digital input alarm	• Battery discharge	• Rectifier fault	• Solar module fault
• Load fuse alarm	• Battery test fail	• Rectifier fan fault	• Solar module fan fault
• Manual mode alarm	• Battery imbalance	• Rectifier protection activated	• Solar module protection activated
• Current imbalance	• Battery disconnect	• Rectifier on/off status	• Solar module on/off status
• Ambient temperature alarm	• Battery temperature sensor fault	• Rectifier communication fail	• Solar module input failure
• Load disconnect	• Battery temperature alarm	• System energy-saving mode	• AC over voltage and under voltage
• AC power failure	• BMS* communication fail	• Energy-saving mode interruption	• DC over voltage and under voltage

* SNMP: Simple Network Management Protocol

* SPD: Surge Protective Device

* LCD: Liquid Crystal Display

* BMS: Battery Management System

* DI: Digital Input

* CAN: Controller Area Network

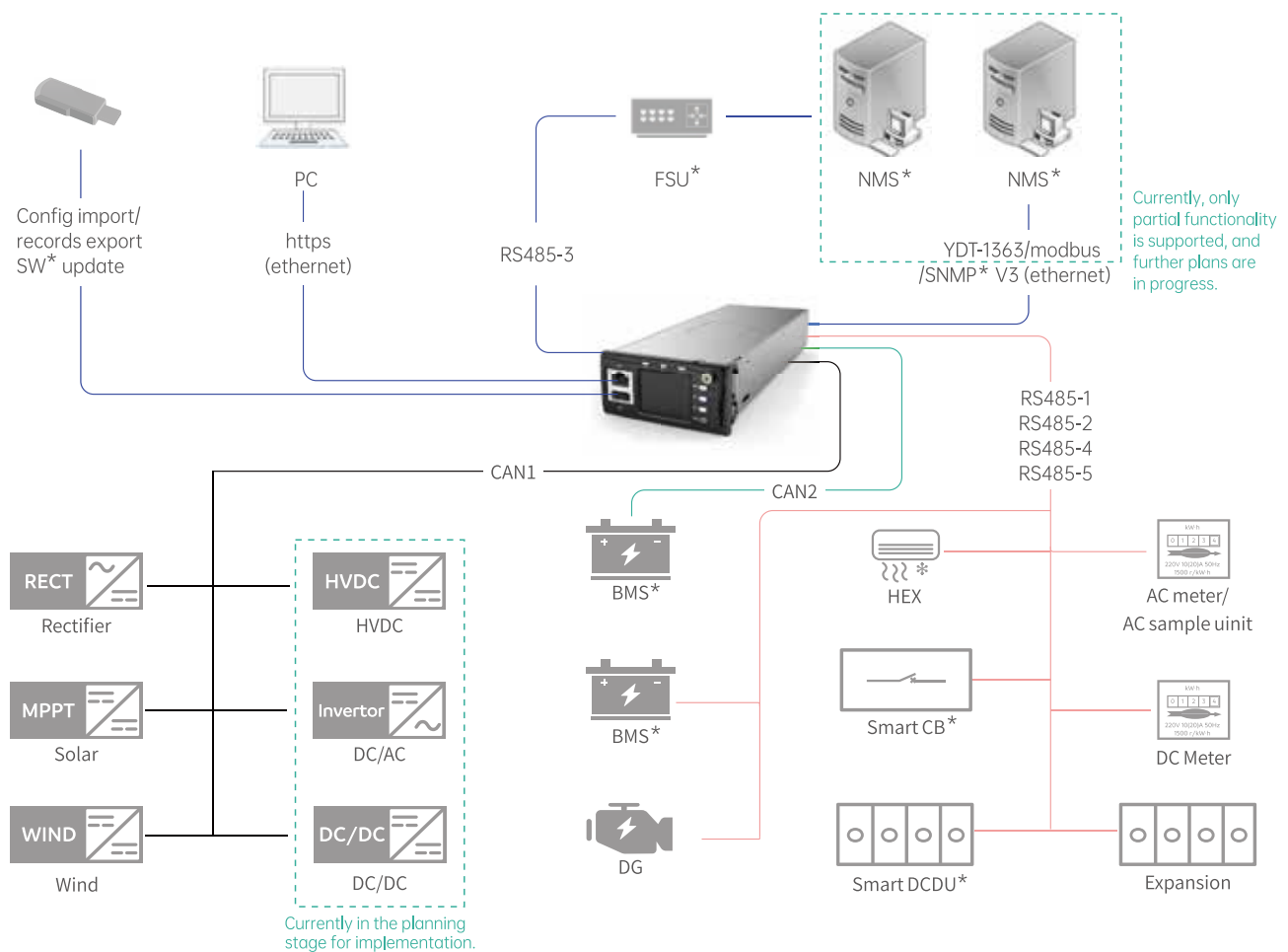
MC2900 Controller

MC2900 is the latest generation DC power controller developed by Megmeet. It is based on ARM Cortex-A8 CPU, 256M flash, 512M SRAM and linux operating system. MC2900 offers a more robust, user-friendly, and easy-to-use interface. The controller provides the management function of rectifier, solar module, wind module, DC/DC module, HVDC* module, diesel, VRLA battery and lithium-ion battery.



Key Features

- Ipv4 static/DHCP*, Ipv6 static/DHCP*, TCP/IP, UDP, HTTPS, SNMP* V2C/V3
- Multilingual LCD* and web display
- Controller firmware upgrading via USB/WEB/WIFI/bluetooth
- Manages from 1 to 40 rectifiers



* FSU: Field Supervision Unit
 * NMS: Network Management System
 * DCDU: Direct Current Distribution Unit
 * SW: Switch
 * CB: Circuit Breaker
 * BMS: Battery Management System
 * DHCP: Dynamic Host Configuration Protocol
 * SNMP: Simple Network Management Protocol

* LCD: Liquid Crystal Display
 * HVDC: High Voltage Direct Current

Measurement

22 x Analog & 12 x digital input readings including: system voltage, load current, battery current, battery temperature, Ambient temperature, ambient humidity, 12*DI, 8*DO, etc.

Communication

The controller communicates with the host computer in 2 modes: RS485 and ethernet (TCP/IP*, UDP*, https and SNMP*). Setting and editing operational parameters, downloading operational history and alarm history are available via WEB browser. Communication between the controller and the rectifiers and the solar modules utilizes CAN communication.

SNMP* protocol supports GET, SET and TRAP 4 x RS485 ports for battery BMS*, DG or extension function boards

Alarm History Log

200000 history alarms and 100000 history events

System Status Log

5000 battery test logs, 5000 battery charge logs, 5000 battery discharge logs, 5000 DG running logs

LCD* & LED

128 x 160 LCD* screen display to access current operating conditions, alarms, user settings; green/yellow/red LEDs indicate operation status and alarms

Collection and Management	Battery Management	DG management	Energy optimization and management
- Rectifier, solar module, wind module, DC/DC module, DC/AC module, HVDC* module data - Lithium battery of any modbus/YDT-1363 protocol based on RS485 or CAN interface - Smart AC meter or self-developed AC metering board data collection - Smart DC meter data collection - Smart DG data collection and management - Climate data collection and management - Smart CB* data collection and management	- Boot and float management - Charge current limit management - Temperature compensation - LVD - Battery test - Midpoint voltage - Capacity calculation - Peak cut - Lithium battery management	- Switch according to battery capacity - Switch according to battery voltage - DG test - Remaining fuel calculation	- Energy input priority management - Rectifier energy saving management - Rectifier rotation

Alarms/Events

- SPD alarm - Digital input alarm - Load fuse alarm - Manual mode alarm - Current imbalance - Ambient temperature alarm - Load disconnect - AC power failure	- Battery fuse alarm - Battery discharge - Battery test fail - Battery imbalance - Battery disconnect - Battery temperature sensor fault - Battery temperature alarm - BMS* communication fail	- Rectifier AC input failure - Rectifier fault - Rectifier fan fault - Rectifier protection activated - Rectifier on/off status - Rectifier communication fail - System energy-saving mode - Energy-saving mode interruption	- Solar module communication fail - Solar module fault - Solar module fan fault - Solar module protection activated - Solar module on/off status - Solar module input failure - AC over voltage and under voltage - DC over voltage and under voltage
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* LCD: Liquid Crystal Display

* CB: Circuit Breaker

* SNMP: Simple Network Management Protocol

* UDP: User Datagram Protocol

* TCP/IP: Transmission Control Protocol/Internet Protocol

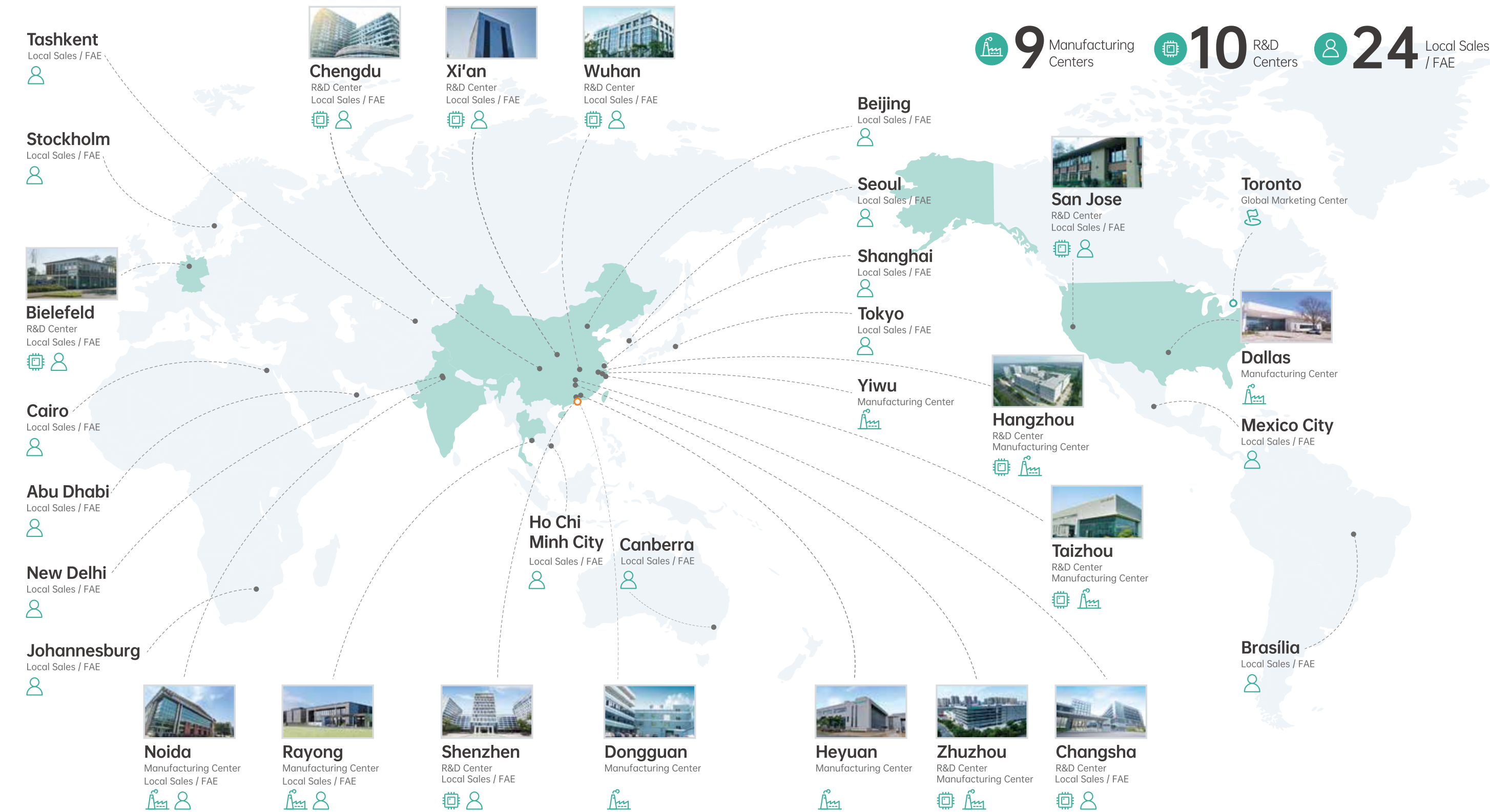
* BMS: Battery Management System

* HVDC: High Voltage Direct Current

Global Infrastructure

MEGMEET's global footprint includes advanced R&D centers, integrated manufacturing, and regional offices enabling fast response, localized support, and efficient deployment worldwide.

MEGMEET's international engineering network supports close customer collaboration, rapid validation, and region-specific adaptation to deliver reliable, high-performance solutions globally.



Power Solutions

- ☒ Telecom Power
- ☐ Medical Power
- ☐ Display Power
- ☐ Enclosed Power
- ☐ LED Power
- ☐ Laser Power
- ☐ OA Power
- ☐ Electric Power
- ☐ Datacenter and Networking Power Solutions
- ☐ Solar & BESS & EV Charging Solution
- ☐ Bi-directional Inverters for Portable Power

Industrial Automation

- ☐ Servo System
- ☐ Control System
- ☐ Elevator Controller
- ☐ Linear Motors
- ☐ IoT Solution
- ☐ Encoder
- ☐ Variable Frequency Drive
- ☐ Internal Gear Pump

eMobility & EV Infrastructure

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- ☐ E-Compressor
- ☐ TV EDU
- ☐ Inverter
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- ☐ Intelligent Active Hydraulic Suspension (i-AHS)
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- ☐ Railway VFD
- ☐ Thermal Mgmt. System
- ☐ Light Electric Vehicle Motors, Inverters, and Charging System

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- ☐ Polysilicon Water Quenching Equipment
- ☐ Automatic Car Washing Machine
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- ☐ Solar A/C Controller
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- ☐ Refrigerator Controller
- ☐ Washer/Dryer Controller
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- ☐ Industrial Microwave
- ☐ Smart Bidet
- ☐ RF Thawing System
- ☐ FFC
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MEGMEET USA, Inc.

Addr. : 4040 Moorpark Avenue, Suite 221, San Jose, CA 95117

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