

Proposal No: IPU418K-A5D689A2

Embedded Subrack Proposal

Model: IPU418K-A5D689A2

Mar/03/2026

LEAD • OPEN • COOPERATE • INNOVATE



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Specifications

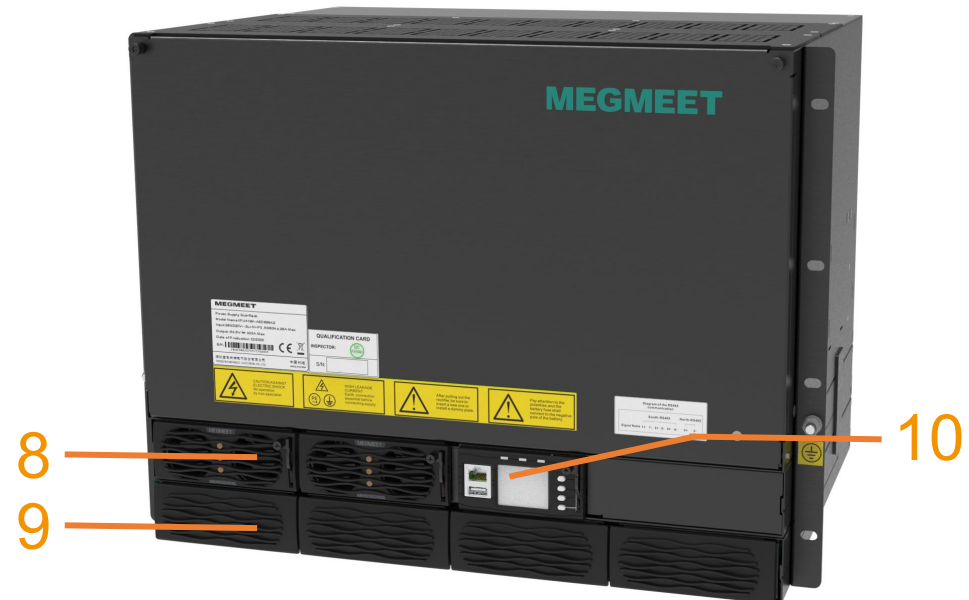
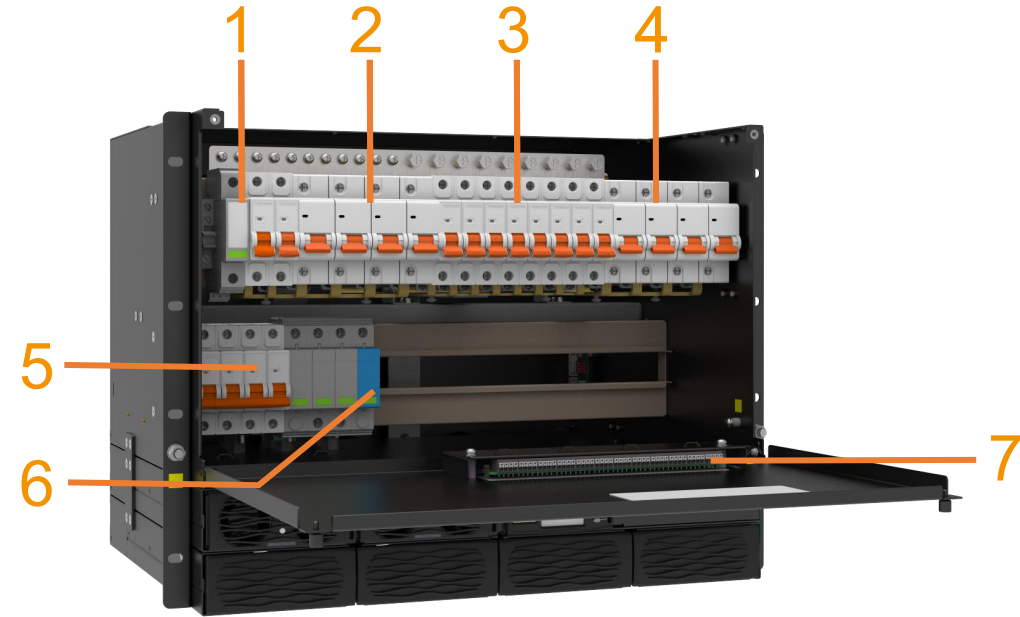
Input Distribution	Input mode	380VAC three-phase– 4 wire
	Input breaker	63A/4P Icu=10kA
	Input frequency	45~65Hz, rated value: 50Hz/60Hz
	AC SPD	20kA/40kA,8/20μs
DC Output Distribution	Output voltage	-42~-58VDC, rated value: -48VDC
	Maximum capacity	18kW
	Battery breakers	4×125A/1P
	Load breakers	LLVD:2*63A/1P,4*125A/1P BLVD:4*20A/1P,4*40A/1P
	DC SPD	20kA/40kA,8/20μs
Controller	DI/DO	3AI(3 temp) ,8 DI,8 DO,3 Southbound RS485,1 Northbound RS485,1 12V
Environment	Operating temperature	-40°C~+65°C
	Operating humidity	5%~95%(non-condensing)
	Altitude	0~4000m(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.)



System Layout

➤ Key Parameters:

1. DC SPD
2. LLVD MCB
3. BLVD MCB
4. BATT MCB
5. AC Input MCB
6. AC SPD
7. DI/DO Interface
8. Rectifier
9. Blank panel(Rectifier or solar)
10. Controller

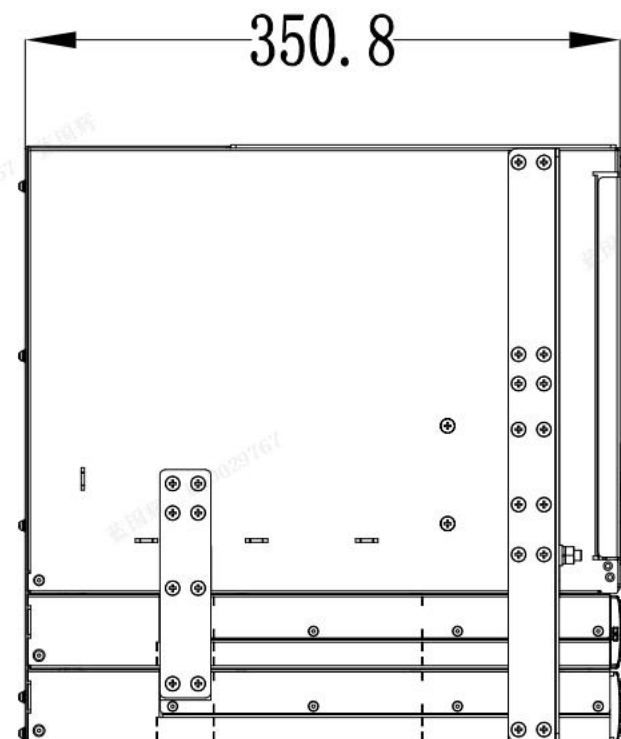
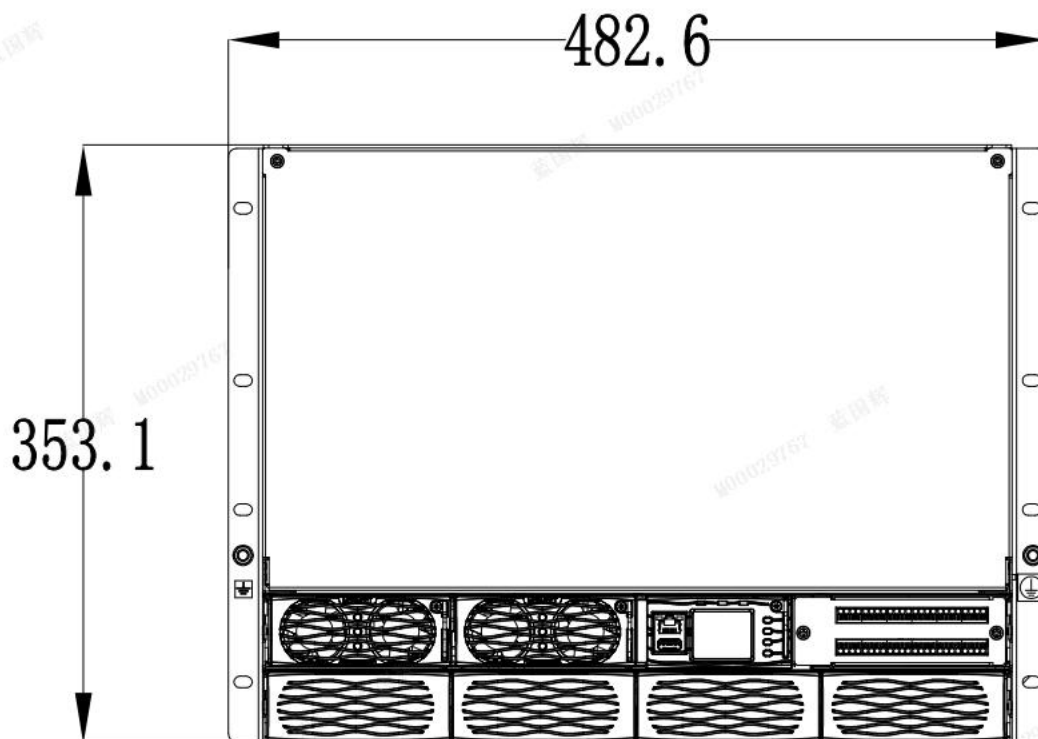




System Dimension(Unit: mm)

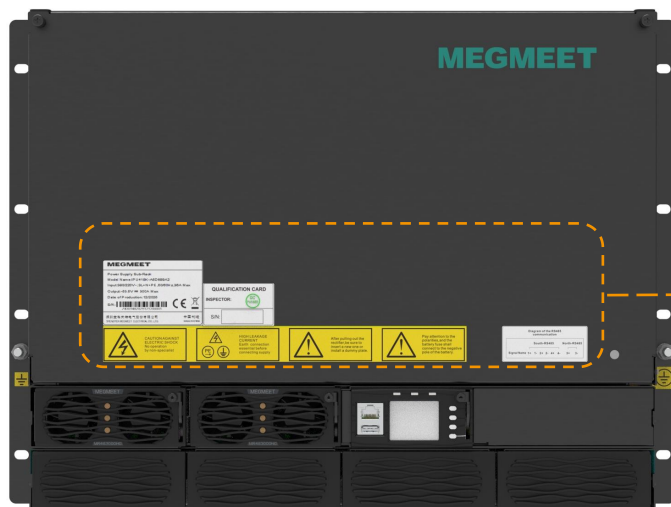
➤ Key Parameters:

- 8U Height, 19" installation;
- Depth: 350.8mm;
- Front inlet and outlet





Lable Display



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Power Supply Sub-Rack
Model Name: IPU418K-A5D689A2
Input: 400/230V~; 3L+N+PE, 50/60Hz, 36A Max
Output: 53.5V = 300A Max
Date of Production: 12/2025

S/N:  XXXXXXXX

深圳麦格米特电气股份有限公司
SHENZHEN MEGMEET ELECTRICAL CO., LTD.

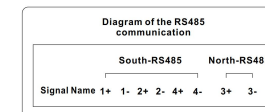
中国制造
MADE IN CHINA

QUALIFICATION CARD

INSPECTOR:

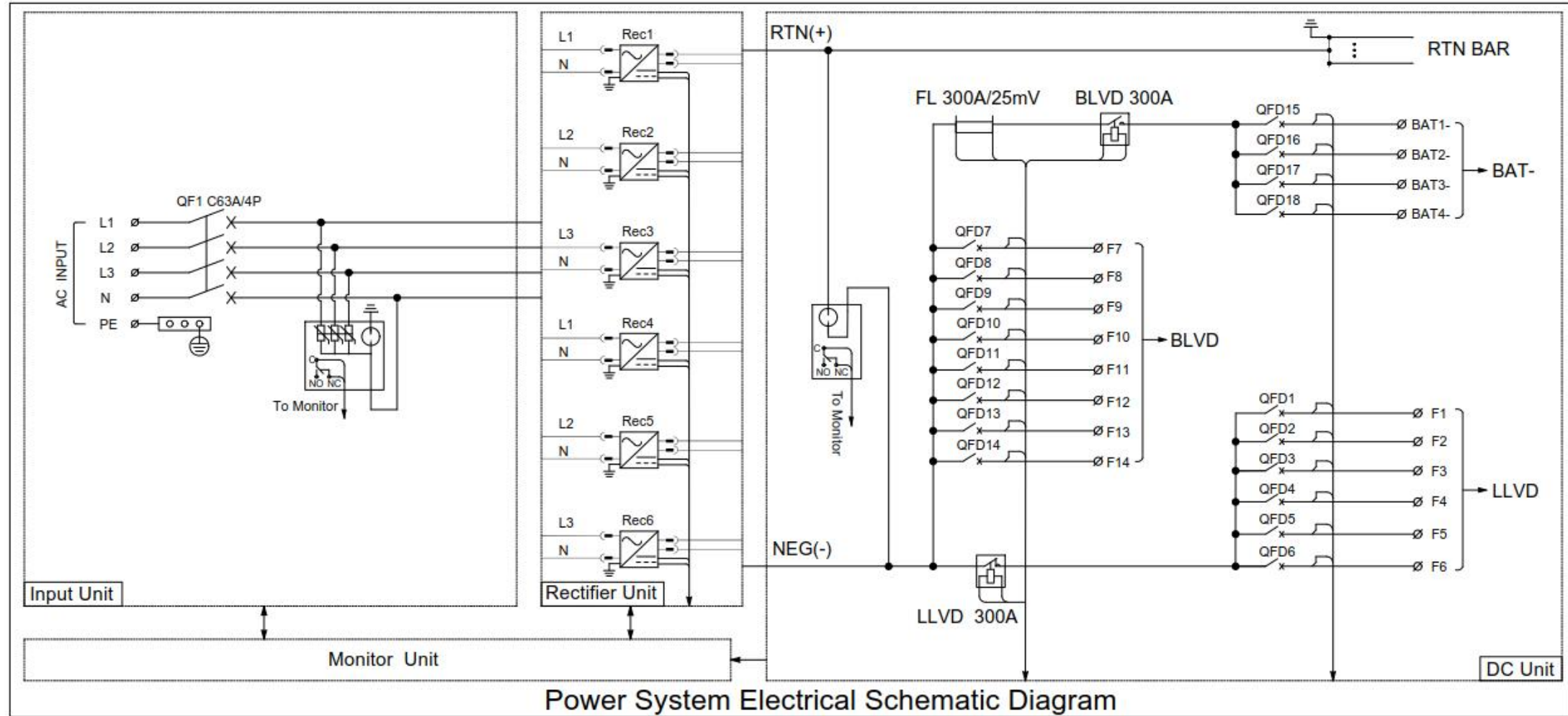
QC
PASS

S/N:





Electrical Schematic diagram





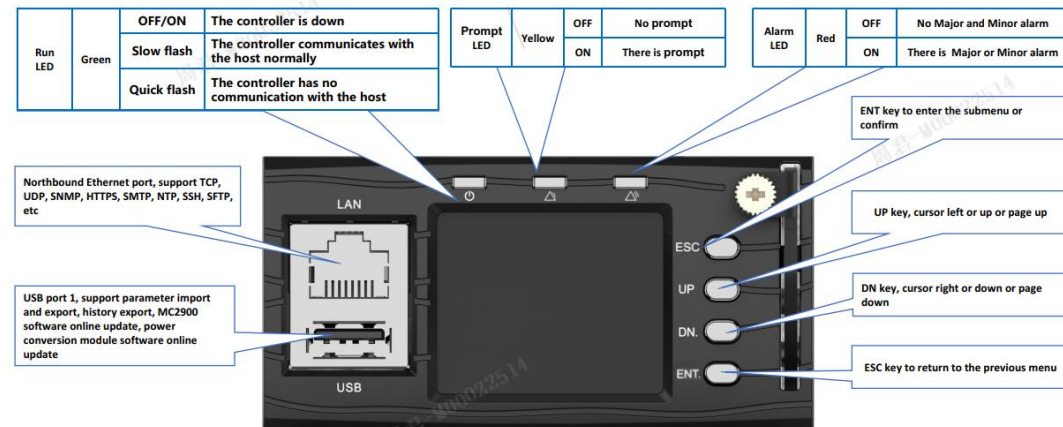
MC2900-GS Controller



MC2900-GS is the new generation DC power controller developed by Megmeet . It offers many features and functions, with a more robust, user-friendly, and easy-to-use interface. A power controller system is formed by this control module together with Megmeet’ s rectifier modules, solar modules and distribution plug-in frame (or distribution cabinet), realizing interactive operations in human-machine interfaces, controller of system operating state, intelligent battery management, and automatic energy-saving management.

Northbound integration protocol: Modbus, SNMP V3, YDT-1363

Interface resources	Number
Southbound CAN	2
Northbound RS485-3	1
Southbound RS485-1/RS485-2/RS485-4/RS485-5	4
Northbound FE	1
Load fuse	4
Battery fuse	2
DI	8
DO	8
USB port	2



Item	parameters
Input characteristics	
Rated input voltage	48Vdc
Input voltage range	24~60Vdc
Maximum current	300mA
Standby Power Consumption	≤7W
Local GUI	160X128, TFT
Web GUI	Yes



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