MEGMEET
Engineered to Empower™

8 kVA 21-inch Inverter Shelf

As datacenter platforms continue to evolve, rack-level power architectures increasingly adopt high-voltage DC distribution. However, some devices inside server rooms still require AC power. MEGMEET's 8 kVA inverter power shelf converts 50 VDC input into 230 VAC output, enabling localized AC power distribution within the rack. Compared with traditional 230 VAC power supply methods, it reduces AC cabling complexity while improving installation flexibility and power distribution reliability. The shelf integrates DC-to-AC inverter power distribution and four independent protected AC output sockets, allowing stable rack-mounted AC power supply for auxiliary equipment inside server racks while improving fault isolation and maintenance convenience.

Key Features

- ORV3 rack-mounted system design
- Maximum system capacity of 8 kVA
- DC input with AC inverter output distribution
- Four independent AC output sockets with individual circuit protection
- Controller monitoring for inverter status and shelf input temperature



IPU8KV-B2A41A

Industry Trends

As datacenter platforms continue to evolve, rack-level power architectures increasingly adopt high-voltage DC distribution. However, some devices inside server rooms still require AC power. MEGMEET's 8 kVA inverter power shelf converts 50 VDC input into 230 VAC output, enabling localized AC power distribution within the rack. Compared with traditional 230 VAC power supply methods, it reduces AC cabling complexity while improving installation flexibility and power distribution reliability.

Core Module Introduction

Inverter: IPI2302000G2A-DATS

The power module is the core power conversion unit of the 8 kVA Power Shelf. It converts DC input power into stable AC output, supplying auxiliary AC equipment inside server cabinets. It supports high efficiency and hot-swap maintenance.



Controller: MPSC6000-PMC-INV

The controller is the power shelf management controller. It monitors and manages power module operation, system status, communication, and protection functions, enabling reliable control, remote monitoring, and easier maintenance of the 8 kVA Power Shelf.



Parameter		8 kVA 21-inch Inverter Shelf (IPU8KV-B2A41A)
System	Dimension (D x W x H)	788.7 x 537 x 48 (mm)
	Weight	11 to 12 kg (without inverter)
	Cooling mode	Forced air cooling, airflow front to rear
	Installation mode	Installed on 21-inch rack
	Cabling mode	Rear inlet & outlet
	Maintenance mode	Front and Back maintenance
	Protection level	IP20
DC Distribution	Input voltage	50 VDC
	Maximum current	200 A
AC Distribution	Output voltage	230 VAC
	Maximum current	8.7 A
	Output port	4 x C13 IEC outlets
Inverter (IPI2302000G2A-DATS)	Dimension (D x W x H)	291 x 106.4 x 41.5 (mm)
	Weight	＜2.0 kg
	DC Input Voltage	42 to 58 VDC; 60 VDC no damage
	Rated input voltage	53.5 VDC
	Max Input current	62.5 A
	Starting impulse current	＜45 A
	Output Voltage	220 / 230 VAC, settable
	Output Frequency	50 / 60 Hz, settable; Default 60 Hz
	Peak Efficiency	91.5% with fan
	Operation Temperature	-20 ℃ to +75 ℃
Controller (MPSC6000-PMC-INV)	Communication port	1 * Ethernet, 1 * CAN
	Protocol	Northbound: PMI, Redfish, SNMP; Southbound: PMBus, SMBus
	Display mode	Web GUI
	Dimension (D x W x H)	442.6 x 37.9 x 15.9 (mm)
	Weight	⩽ 2 kg
Environment	Operating temperature	-10 ℃ to +45 ℃
	Storage temperature	-40 ℃ to +75 ℃
	Operating humidity	5% to 95% (non-condensing)
	Altitude	0 to 4000 m (if altitude is within 2000 to 4000 m, max operating temp decreases by +1 ℃ as altitude increases by 200 m)

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6 kVA 19-inch Inverter Shelf

As datacenter platforms continue to evolve, rack-level power architectures increasingly adopt high-voltage DC distribution. However, some devices inside server rooms still require AC power. MEGMEET's 6 kVA inverter power shelf converts 50 VDC input into 230 VAC output, enabling localized AC power distribution within the rack. Compared with traditional 230 VAC power supply methods, it reduces AC cabling complexity and improves installation flexibility. The shelf integrates DC-to-AC inverter power distribution and protected AC output circuits, providing stable rack-mounted AC power for auxiliary equipment and other critical post-conversion power supply scenarios.

Key Features

- Maximum system capacity of 6 kVA
- DC input with AC inverter output distribution
- Four C13 AC output outlets with independent circuit protection
- Controller monitoring for inverter status and shelf input temperature



IPU6KV-B2A31A

Industry Trends

As datacenter platforms continue to evolve, rack-level power architectures increasingly adopt high-voltage DC distribution. However, some devices inside server rooms still require AC power. MEGMEET's 6 kVA inverter power shelf converts 50 VDC input into 230 VAC output, enabling localized AC power distribution within the rack. Compared with traditional 230 VAC power supply methods, it reduces AC cabling complexity and improves installation flexibility.

Core Module Introduction

Inverter: IPI2302000G2A-DATS

The power module is the core power conversion unit of the 6 kVA Power Shelf. It converts DC input power into stable AC output, supplying auxiliary AC equipment inside server cabinets. It supports high efficiency and hot-swap maintenance.



Controller: MPSC6000-PMC-INV

The controller is the power shelf management unit. It monitors and manages power module operation, system status, communication, and protection functions, enabling reliable control, remote monitoring, and easier maintenance of the 6 kVA Power Shelf.



Parameter		6 kVA 19-inch Inverter Shelf (IPU6KV-B2A31A)
System	Dimension (D x W x H)	811.5 x 448 x 44 (mm)
	Weight	9 to 10 kg (without inverter)
	Cooling mode	Forced air cooling, airflow front to rear
	Installation mode	Installed on 19-inch rack, compatible 21-inch rack with optional bracket
	Cabling mode	Rear inlet & outlet
	Maintenance mode	Front and Back maintenance
	Protection level	IP20
DC Distribution	Input voltage	50 VDC
	Maximum current	200 A
AC Distribution	Output voltage	230 VAC
	Maximum current	8.7 A
	Output port	4 x C13 IEC outlets
Inverter (IPI2302000G2A-DATS)	Dimension (D x W x H)	291 x 106.4 x 41.5 (mm)
	Weight	＜2.0 kg
	DC Input Voltage	42 to 58 VDC; 60 VDC no damage
	Rated input voltage	53.5 VDC
	Max Input current	62.5 A
	Starting impulse current	＜45 A
	Output Voltage	220 / 230 VAC, settable
	Output Frequency	50 / 60 Hz, settable; Default 60 Hz
	Peak Efficiency	91.5% with fan
	Operation Temperature	-20 ℃ to +75 ℃
Controller (MPSC6000-PMC-INV)	Communication port	1 * Ethernet, 1 * CAN
	Protocol	Northbound: PMI, Redfish, SNMP; Southbound: PMBus, SMBus
	Display mode	Web GUI
	Dimension (D x W x H)	442.6 x 37.9 x 15.9 (mm)
	Weight	⩽ 2 kg
Environment	Operating temperature	-10 ℃ to +45 ℃
	Storage temperature	-40 ℃ to +75 ℃
	Operating humidity	5% to 95% (non-condensing)
	Altitude	0 to 4000 m (if altitude is within 3000 to 4000 m, max operating temp decreases by +1 ℃ as altitude increases by 200 m)