



# The MCS 1800 series ...

## Power System ES 24/50A-4 JAA

### Features

- Up to 200A output current
- Fan cooled rectifiers ESR 24V - 50 A - D
- Hot pluggable, all connectors at the rear
- Power system controller Smart CSU

### Applications

- Medium power systems
- Wireless base stations
- Core network components
- Telecommunications/data networks



### Description

ES 24/50A-4 JAA Power system combines a compact modular design with intelligent power features and state-of-the-art technology. The result is ES 24/50A-4 JAA Power Shelf, which offers, advanced features making it a perfect choice for outdoor cabinets and PCS applications. ES24/50A-4 JAA is capable of providing +24VDC power with a load range of up to 200Amps. Up to four plug-in rectifiers modules (3U Shelf) can be equipped on a power Shelf, each module with a rating of +50A at +24V. The shelf also houses Alarms and comprehensive remote monitoring and control.



## ES 24/50A-4 JAA: Technical specifications

### General

Efficiency, at 220Vrms	88 %
Safety	UL 60950 CAN/CSA-C22.2 No.60950
EMI, radiated	FCC Part 15, class A
Compliant with	CISPR 22, class A

### Input

AC connection	1 $\Phi$ 220 V <sub>rms</sub>
Voltage range	90 ... 275 V <sub>rms</sub> (300 V <sub>rms</sub> , no damage)
Frequency range	45 ... 65 Hz
Current maximum	48 A
Inrush current	<48 A <sub>peak</sub>
Mains terminal	Terminal block
AC switch	None

### Output

Voltage, nominal	27 V <sub>dc</sub>
Voltage adjust range	20 ... 29 V <sub>dc</sub>
Load regulation	< $\pm$ 0.5 %
Line regulation	< $\pm$ 0.1 %
Over voltage protection	29 V $\pm$ 0.5 V
Maximum power	5600 W, max.
Current limit	220 A
Load sharing	< $\pm$ 5%
LVDS	External
Battery Disconnect	External

### Load distribution

Distribution	External
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### Power system controller

Smart CSU	
7 segment LED	Display DCV DCI
LED Indicator	LED «FL/EQU» LED «MAJ» LED «MIN» LED «HV» LED «HVSD» LED «LV» LED «LVDS OPEN» LED «FUUSE ALM» LED «AC FAIL»
Relay outputs	8
Communication interface	RS 232 RJ 45 (Optional)
WEB/SNMP function	Optional

### Mechanics

Construction	Shelf
Width, overall	19" / 482.6 mm
Depth, overall	15" / 368.9 mm
Height, overall	5.25" / 133.4 mm
Weight, system (empty)	8 kg
Weight, rectifier	7.26 lb / 3.3 kg per rectifier

### Environment

Operating temperature	0 ... + 65 °C
Reduced power	+ 50 ~ + 65 °C
Relative humidity	95 % max, non condensing
Altitude	- 500 ~ 10000 feet

### Power module

Rectifier	ESR 24 V - 50 A - D
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\*Specifications are subject to change due to technical progress