



The MCS 1800 series ...

Power System ES 48/30A-3 JFA

Features

- Up to 90A output current
- Fan cooled rectifiers ESR 48V - 30 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 48/30A-3 JFA Power system combines a compact modular design with intelligent power features and state-of-the-art technology. The result is ES 48/30A-3 JFA Power Shelf, which offers, advanced features making it a perfect choice for outdoor cabinets and PCS applications. ES48/30A-3 JFA is capable of providing -48VDC power with a load range of up to 90Amps. Up to three plug-in rectifiers modules (3U Shelf) can be equipped on a power Shelf, each module with a rating of +30A at -48V. The shelf also houses Alarms and comprehensive remote monitoring and control.



ES 48/30A-3 JFA: Technical specifications

General

Efficiency, at 220Vrms	91 %
Safety	UL 60950 CAN/CSA-C22.2 No.60950
EMI, radiated	FCC Part 15, class B
Compliant with	CISPR 22, class B

Input

AC connection	1 Φ 220 V _{rms}
Voltage range	90 ... 275 V _{rms} (300 V _{rms} , no damage)
Frequency range	45 ... 65 Hz
Current maximum	36 A
Inrush current	<36 A _{peak}
Mains terminal	Terminal block
AC switch	None

Output

Voltage, nominal	54.3 V _{dc}
Voltage adjust range	42 ... 59.5 V _{dc}
Load regulation	< \pm 0.5 %
Line regulation	< \pm 0.1 %
Over voltage protection	59.5 V \pm 0.5 V
Maximum power	4950 W, max.
Current limit	99 A
Load sharing	< \pm 5%
LVDS	100 A x 1 on battery side
Battery Disconnect	None

Load distribution

Distribution (Optional)	4 positions 30A maximum
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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 «FUSE 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" / 381 mm
Height, overall	5.25" / 133.4 mm
Weight, system (empty)	10 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 48 V - 30 A - D
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*Specifications are subject to change due to technical progress