

ESR 24V-50A-D

Fan-cooled Rectifier



FEATURES

- Compact (7.9W/in³) and Light (3.3kg)
- Efficiency 88%
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range 90-300Vrms
- Power Factor ~ 1.0 (sinusoidal input current)
- Constant current characteristic
- Operating temperature range up to 65°C
- Intelligent microprocessor controlled

ENVIRONMENTAL

Operating Temp: -5 to +65°C (with de-rating)

SAFETY / EMC

EN60950
UL60950
CAN/CSA-C22.2

EN55022 Class B
EN300 386-2
IEC1000-3-2

DIMENSIONS & WEIGHT

Dimensions (mm): 84(W) x 132(H) x 299(D)
2U x 3U

Weight: 3.3kg

ELECTRICAL SPECIFICATIONS

INPUT

AC Input Voltage 90 - 300VAC
(90-176V with reduced output power)
(276-300V has no PFC)

Inrush Current 12A peak
Input Current 12A rms Max.

OUTPUT

DC Output Voltage 27V DC (nominal)
Adjustment range 20 - 29V DC
Over-voltage Protection 29.5V ±0.5V
Ripple & Spikes <100mV p-p

Output Current Limit 55A DC (nominal)
Adjustment range 0 - 55A DC
Load Sharing < ±2.5A DC
Power Limit None

POWER SYSTEM CONTROLLER

PSC 1000 Voltage programming
Rectifier fail alarm

Smart CSU Voltage programming
Current limit programming
Rectifier fail alarm
Rectifier on/off
Rectifier output current meas.

ACCESSORIES

Backplane
Blank panel

USER INTERFACE

Output I indication Test Jacks
Status indication AC On LED
Current Limit LED
Rectifier failure LED
Float Voltage Adjust. Potentiometer
Current Limit Adjust. Potentiometer

Specifications subject to change without notice

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