250-2600 Watts

HELIOS

Mini FLEX

2600W 48 VDC Compact Flexible Power Solution



Special Features

- Up to 2600 W Power Output and up to 5200 W with optional double shelves
- Front access unit.
- Operable in 110VAC or 220VAC systems
- One to four 250W/500W/650W output rectifiers providing up to 1950W with N+1 redundancy
- Distribution: 8 fuse positions (0 to 10A each)
- Power factor correction
- Current sharing
- Standard Low Voltage Disconnect (LVD) with LVD bypass and LVD test.
- Hot plug-in rectifier modules
- Soft switching technology
- Brackets for 1.5 or 4.75 inch depth installation
- Full complement of LED and output alarms
- Connection for battery string
- Compact dimensions
  - Power shelf: 19"W x 4.94"H x 13.2"D
  - Battery tray: 17.3"W x 7"H x 14.46"D
- CE Marking

Environmental

EMC/EMI: FCC Class B, CISPR Class B for digital devices, Telcordia GR-1089-CORE, Class B, EN 300 386-2

Temperature: -40° to +65°C (+50°C for high altitude)

Humidity: 0 to 95% RF (non-condensing)

Acoustic noise: < 60dB for full system

Cooling: forced air, horizontal (side to side)

Shock and vibration: meets Telcordia GR-63- CORE

Fire resistance: UL 94VO, TR-NWT-000154, Sec 7.2

Voltage surge protection: meets Telcordia GR-1089 section 4.5.9

Electrical Specs

Input

AC input voltage range	110/220VAC (86-264 VAC for 250 W, 176-264 VAC for 500 W,186-264 VAC for 650W rectifiers)
Frequency	45 – 65 Hz
Efficiency	> 86% at full load
Power factor	0.99 (50 – 100% output load)
Total harmonic distortion	< 6.5% at loads over 50% of rated current

Output

DC output voltage range	-54.5 VDC ± 0.27 VDC (Factory preset)
Output Current	18.35A (1000W), 36.70A (2000W), 47.71 A (2600W) @ -54.5 VDC
Maximum output power	1120 W, 2240 W, 2730 W @ power limit. Different preset voltages avail.
Voltage regulation	± 0.5% load/line and ± 1.0% load/line°C
Dynamic response	± 5% for 10% to 90% or 90% to 10% load step changes
Capacitor precharge	automatic upon insertion
Voice frequency noise	<55dB rnc @ 10% load
High frequency noise	<250 mV p-p

Battery Tray - A0802970

(for 1000 W application only)

Protection disconnect device	Built in 30 A circuit breaker
Batteries	Designed to accommodate 30 A/h M12V30 Marathon VRLA batteries

Safety

Rectifier:	UL1950
Power Shelf:	UL1801, CSA 22.2#950, IEC-950, VDE

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Ordering Information

HMFLEX-☐-☐

Multiplier

EXAMPLE: HMFLEX-**1**-**3**

750 W total power
with three 250 W rectifiers

Rectifier Base	1	2	3	4
1	250W	500W	750W	1000W
2	500W	1000W	1500W	2000W
3	650W	1300W	1950W	2600W

Helios MiniFLEX includes Power Shelf, LVD, and distribution; eight 10A GMT fuses

Options:

P0917017 Helios MiniFlex 23" adapter bracket kit
A080297 Battery Shelf and battery tray cable assembly to accommodate 30 A hr battery string for HMFLEX-1-☐ system (battery not included)
P0917018 Battery shelf 23" adapter bracket kit
P0944645 60" power cord for up to 220 VAC with Hubbel #2321AC plug
P0944646 120" power cord for up to 220 VAC with Hubbel #2321AC plug
P0944647 180" power cord for up to 220 VAC with Hubbel #2321AC plug
P0944716 60" power cord for up to 220VAC without AC plug
P0944718 120" power cord for up to 220VAC without AC plug
P0944719 180" power cord for up to 220VAC without AC plug





