

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 \pm 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 | \pm 0.5% load/line and \pm 1.0% load/line°C |
| Dynamic response | \pm 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

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

EXAMPLE: HMFLEX- 1 - 3

750 W total power
 with three 250 W rectifiers

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

