500-4000 Watts

MiniSystem 3500



Special Features

- 3500 W Constant Power Output System
- Available in 110VAC or 220VAC systems
- 110 VAC systems can be configured with two to eight, 250W Output Rectifiers providing up to 1750W with N+1 Redundancy
- 220 VAC systems can be configured with two to eight, 500 W Output Rectifiers providing up to 3500W with N+1 Redundancy
- Adjustable DC Output Voltage: (-48 to -55.5V)
- Adjustable Temperature Compensation slope
- Adjustable Low Voltage Disconnect threshold
- Adjustable Battery Charge Control (2A to 20A)
- Distribution: 10 Fuse Positions (0 to 10A each) Up to five breakers
- Power Factor Correction
- Current Sharing
- Soft Switching Technology
- Full Output Power at Full Temperature Range
- Full Complement of LED and Output Alarms Available
- Connections for up to Two Battery Strings
- EMI Filter Included
- Compact Dimensions (21.5"W x 5.25"H x 14"D) (550 x 133 x 300mm)
- Fan shelf (220 V rectifier shelf) for increased temperature range, and installation in areas with low volume or no air flow

Safety

UL 1950 UL1801 CSA C22.2 No. 950 IEC-950

Electrical Specs

Input

AC Input Voltage Range

110/120VAC (86 - 132 VAC) (250 watt rectifiers) 208/240VAC (176 - 264VAC) (500 watt rectifiers)

Frequency 50 - 60 Hz (45 - 65 Hz) Efficiency >86% @ full load

Power Factor 0.99 (50 - 100% output load)

Harmonic Distortion <5% @ loads over 50% of rated current

Output

DC Output Voltage Range

-54.5 VDC

(user selectable -48 to -55.5VDC)

Maximum

Output Power 1750 watt/system @110VAC (250 watt rectifiers) with N+1

3500 watt/system @ 220VAC (500 watt rectifiers) with N+1 +/- 0.5% load/line and +/- 1.0%

Voltage Regulation load/line/temperature

from +/-5% for 10% to 90% or 90% to 10% Dynamic Response

load step changes

Protection and/or Disconnect

fuses/breakers Parallel Operation

+/- 10% of rated current between rectifiers Power/Current Limit 102.5% +/- 2.5% of rated power at output

voltages >42VDC

Capacitor Precharge

Automatic upon insertion

Hold-up Time

Output voltage remains above -42V

for 30 msec

Voice Frequency Noise <55 dB rnC High Frequency Noise <250 mV rms

Environmental

EMC/EMI: FCC Class B, CISPR Class A for digital devices, Bellcore GR-1089-CORE

ESD: Bellcore TR-NWT-001089

Temperature: -40° to +50°C with natural convection cooling (250 W rectifiers), -40°C to +65°C with forced air cooling (500 W rectifiers) @ 250

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

Acoustic Noise: <65dB for full system including eight rectifiers, fan unit

Asia (HK): 852-2437-9662

Cooling: natural convection / forced air

Shock and Vibration: Bellcore TR-NWT-000063

Fire Resistance: UL94VO

Voltage Surge Protection: meets IEEE C62.41-1991



AMERICAS

5810 Van Allen Way Carlsbad, CA 92008 Telephone: 760-930-4600 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 11X, UK Telephone: 44 (1384) 842-211 Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21 Tower1, Metroplaza 223, Hing Fong Road Fwai Fong, New Territories Hong Kong Telephone: 852-2437-9662 Facsimile: 852-2402-4426



Ordering Information

BREAKER SELECTION FOR MS3500

Current*	Model Number	
1 A	A0723076	
5 A	A0723033	
10 A	A0723035	
15 A	A0723037	
20 A	A0723007	
30 A	A0723040	
50 A	A0723008	

* All breakers rated @ 80VDC

Notes:

Standard Controller

The standard controller has control, monitoring and alarm features including temperature compensation and thermal control functions. Settings are selectable with dipswitches. Settings are programmed in the controller card and automatically configure any newly inserted rectifiers.

- 1 System includes Shelf, Controller, Low Voltage Battery Disconnect, and one Fuse Pack., 10 ft. alarm cable, and 10 ft temperature probe
- 220 V standard controller system includes shelf, controller, fan shelf, low voltage battery disconnect, one fuse pack, 10 ft alarm cable and 10 ft temperature probe.







