imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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HELIOS

Mini System 3500

3500W 48VDC Compact Flexible Power System

Total Power	3500 Watts
Input Voltages	96 - 264VAC
# of Outputs	1 - 15
Size	21.5" W x 5.25" H x 14" D

SPECIAL FEATURES

- 3500W Constant Power Output System
- Available in 110VAC or 220VAC systems
 110 VAC systems contain from one to eight, 250W Output Rectifiers providing up to 1750W with N+1 Redundancy
- 220 VAC systems contain from one to eight, 500W Output Rectifiers providing up to 3500W with N+1 Redundancy
- Adjustable DC Output Voltage: (48 to 55.5V)
- Adjustable Temperature Compensation (Disabled to 144mV/DEG C)
- Adjustable Low Voltage Disconnect (Disabled to 47 V DC)
- Adjustable Battery Charge Control (2A to 20A)
- Distribution: 10 Fuse Positions (0 to 15A each)
- Up to five breakers Power Factor Correction
- Power Factor Cor
- 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)
- Optional fan shelf for increased temperature range, and installation in areas with low volume or no air flow

ENVIRONMENTAL

- EMC/EMI: FCC Class B, CISPR Class B for digital devices, Bellcore GR-1089-CORE
- ESD: Bellcore TR-NWT-001089
- Temperature: -40° to +50°C with natural convection cooling, -40°C to +65°C with forced air cooling
- Humidity: 0 to 95% RH (non-condensing)
- Acoustic Noise: <65dB for full system including eight rectifiers, fan unit
- Cooling: natural convection / forced air
- Shock and Vibration: Bellcore TR-NWT-000063
- Fire Resistance: UL94VO
- Voltage Surge Protection: meets IEEE C62.41-1991



ELECTRICAL SPECIFICATIONS

Input

AC Input Voltage Range	. 110/120VAC (96 - 132 VAC)(250 watt rectifiers) 208/240VAC (176 - 264VAC)(500 watt rectifiers)
	>86% (50 - 100% output load) .0.99 (50 - 100% output load)

Output

DC Output Voltage Range48VDC (user selectable 48 - 55.5VDC)
Maximum Output Power 1750 watt/system @110VAC (250 watt rectifiers)
3500 watt/system @ 220VAC (500 watt rectifiers)
Voltage Regulation +/- 0.5% load/line and +/- 1.0% load/line/ temperature
Dynamic Response from +/-5% for 10% to 90% or 90% to
10% 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 less than 55 dB mC
High Frequency Noise less than 250 mV rms

SAFETY

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



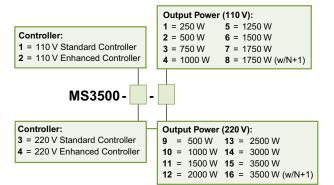


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ORDERING INFORMATION

Mini System 35001



Notes:

1 System includes Shelf, Controller, Low Voltage Battery Disconnect, and one Fuse Pack.

OPTIONS

Battery interface module Temperature Probe for Standard Controller (analog, 10 ft.) Temperature Probe for Enhanced Controller (digital, 10 ft.) Fan Shelf.					
Cables					
Alarm Cable					
Туре		15 feet	30 feet	100 feet	
34 position (J18)	Astec Part #	P0883245	P0883246	P0883247	
20 position (J19)	Astec Part #	P0883248	P0883249	P0883250	
16 position (J20)	Astec Part #	P0883251	P0883252	P0883253	
BIM Interconnection Cables					
Туре		5 feet	15 feet		
BIM to BIM	Astec Part #	P0876031	P0882987		
BIM to Enhanced Controller	Astec Part #	P0876032	P0882989		

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.

Enhanced Controller

The enhanced controller is microprocessor based and incorporates all of the features of the standard controller, as well as software based configuration and monitoring, and the addition of improved battery management. Software is included with the controller.

Battery Interface Module

The Enhanced controller is capable of more sophisticated monitoring of batteries by using the Battery Interface Module (BIM). The BIM maximizes battery life, and allows the Enhanced Controller to perform battery state/life calculations and prediction of battery life expectations.

The BIM is mounted on one battery of each battery string (maximum 12 battery strings) and is capable of providing the following information regarding the batteries, and protects the system from any battery malfunction via a circuit breaker: voltage, midpoint voltage, current, temperature (°C), ambient temperature (°C), battery interface module fail status, breaker status.

BREAKER SELECTION FOR MS3500

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

* All breakers rated @ 80VDC





DRAWINGS • MINI SYSTEM 3500

