



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
- 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)
Frequency	50 - 60 Hz (45 - 65 Hz)
Efficiency	>86% (50 - 100% output load)
Power Factor	0.99 (50 - 100% output load)
Total Harmonic Distortion	<5%

Output

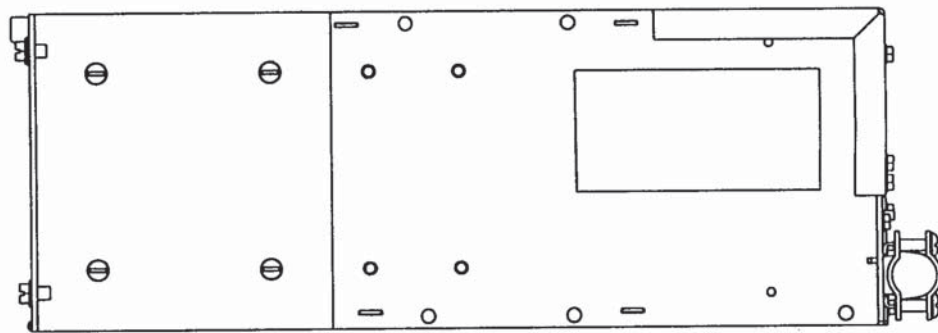
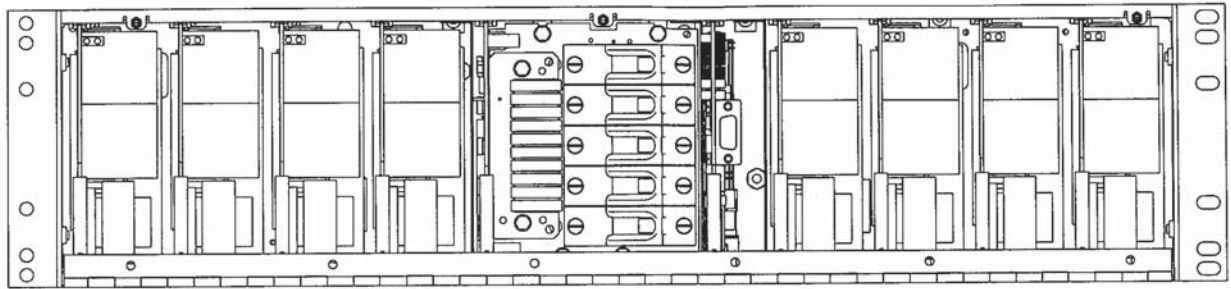
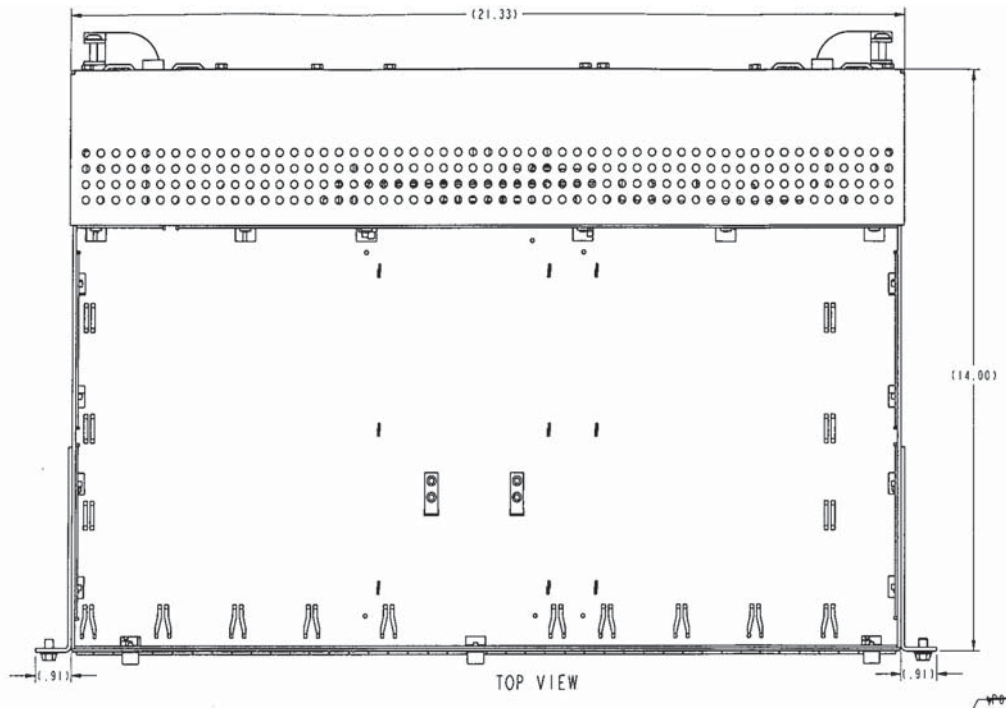
DC Output Voltage Range ...	-48VDC (user selectable 48 - 55.5VDC)
Maximum Output Power	1750 watt/system @110VAC (250 watt rectifiers)
	3500 watt/system @ 220VAC (500 watt rectifiers)
Voltage Regulation	+/- 0.5% load/line and +/- 1.0% load/line/temperature
Dynamic Response	from +/-5% for 10% to 90% or 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



DRAWINGS • MINI SYSTEM 3500



RIGHT SIDE VIEW

