

REV: 09292011



PRODUCT FEATURES:

- 2RU Height, 19" 8KW Power Shelf
- -54VDC 148A Output (4 x 37A Rectifier Modules)
- (3) 60A Load Breakers
- (2) 60A Battery Breakers
- Easy Access for Shelf Wiring
- Rectifier Control Module
- 2 LVD Circuits; Battery Charging
- Remote Access via Ethernet
- SNMP Interface
- RS232 Serial Interface
- Worldwide EMI and Safety Agency Approvals



INPUT SPECIFICATIONS:

VOLTAGE	Universal Input 100V to 265VAC. Output De-rated at low line. See AC De-rating graph.
FREQUENCY	47-63Hz
INRUSH CURRENT	30A @ 230VAC (Max Cold Start) per module
OPERATING CURRENT	10A @ 230VAC (Max Continuous) per module
LEAKAGE	<10mA @ 264VAC, per module
HOLD-UP	16 ms Minimum (230 VAC & Full Load)
EFFICIENCY	>92% typical
HARMONICS	EN61000-3-2 Class D Compliant (>97% PF)

OUTPUT SPECIFICATIONS:

OUTPUT VOLTAGE	-54VDC (Typical)
OUTPUT CURRENT	148Amps (Max Continuous)
ADJUSTMENT RANGE	-46VDC to -58VDC
MINIMUM LOAD	None
LINE REGULATION	±0.5% max, across full input range
LOAD REGULATION	±1% max, across full load range
RIPPLE	250mVp-p, max, (20MHz BW)
EXCURSION	±3% max, 25% Step Load
RECOVERY	100ms max
OVER CURRENT	105-120% (Auto-Recovery)
OVER VOLTAGE PROTECTION	-59VDC (recycle input to reset)

SAFETY STANDARDS:

UL / CUL	60950-1
CB	EN60950-1 / IEC60950-1
CE MARK	Low Voltage Directive

GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	-40°C to +70°C. From 55°C to 61°C de-rate output current to 125 Amps. From 61°C to 70°C de-rate output current to 116.66.
STORAGE TEMPERATURE	-55°C to +85°C
COOLING	Intelligent Fans (each Rectifier)
OPERATING HUMIDITY	20% - 80% (non-condensing)
VIBRATION	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>100,000 Hours (Per Mil STD 217) 100% Load 25C
SIZE (INCHES)	3.47" (H) x 19" (W) x 16.39" (D)

EMISSIONS:

EMISSIONS	EN55022 Level A (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 4kV Contact / 8kV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26MHz-2000MHz, 10V/m, 80%AM
EFT / BURSTS	EN61000-4-4, 2kV
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 150KHz-80MHz, 10Vrms, 80%AM
VOLTAGE DIPS	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
VOLTAGE INTERRUPTIONS	EN61000-4-11, 95% reduction, 5ms
FLUCTUATIONS & FLICKER	EN61000-3-3

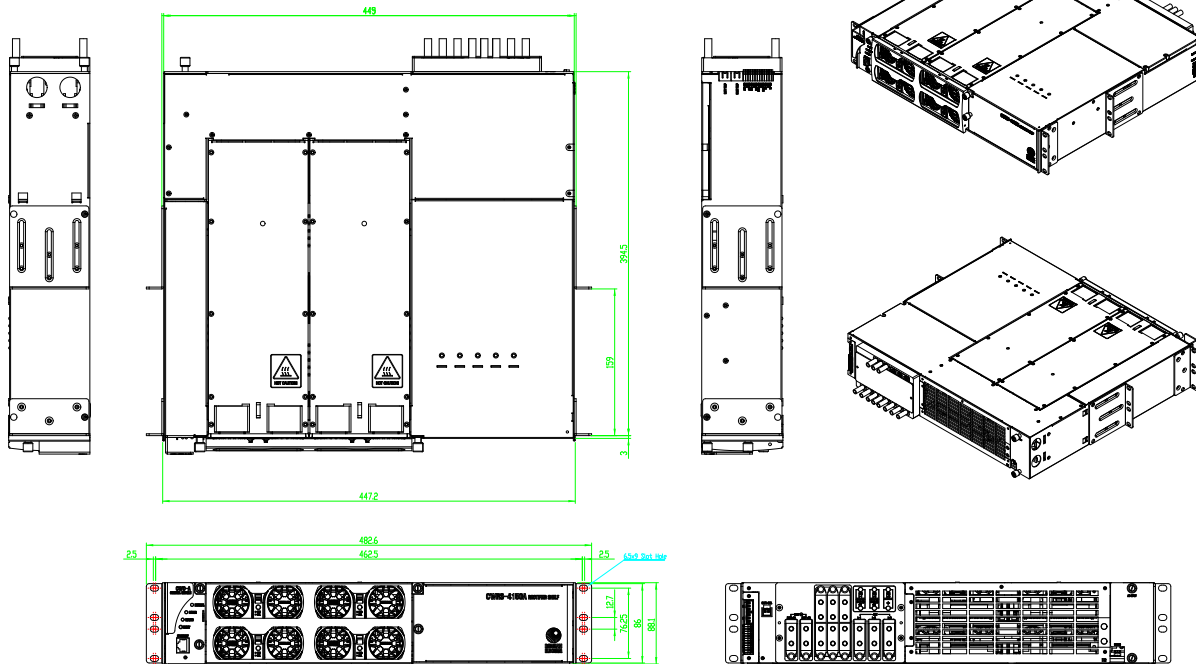
STATUS & CONTROL SPECIFICATIONS:

AC INPUT GOOD	Alarm via Communications Interface
DC OUTPUT GOOD	Alarm via Communications Interface
BATTERY CONDITIONS	Alarm via Communications Interface
COMM	Ethernet
COMM	SNMP
COMM	RS232



OUTLINE DRAWING:

For Additional Information, refer to CWRS-4150A Operation Manual



ITE / EMBEDDED POWER SUPPLY

DE-RATING CURVES:

