



REV: 09232011

ITE / EMBEDDED POWER SUPPLY

## PRODUCT FEATURES:

- 54V 100A 19" Power Shelf
- DC Distribution through 6 Breakers
- Battery Charging & Management Circuitry
- Efficiency is  $\geq 90\%$
- Active Current Share between Rectifier Modules
- N + 1 Redundant Rectifier Modules
- Power Factor Correction > 97%
- Full featured Alarm & Status
- Ethernet Interface
- RS232 & RS485 Serial Interfaces
- Front Panel LED Alarms
- Worldwide Safety & EMI Standards



## INPUT SPECIFICATIONS:

VOLTAGE	AC Input (176 - 264VAC)
FREQUENCY	47-63Hz
INRUSH	20A @ 230VAC Full Load (Max Cold Start)
CURRENT	15A @ 230VAC (Max Continuous)
PROTECTION	Single 25 A Fuse / 250V Rated
LEAKAGE	3.5mA @ 264VAC Max per Module
HOLD-UP	16ms minimum (230VAC, Full Load)
EFFICIENCY	90% typical @ 230VAC Full Load (48Vout)
HARMONICS	EN61000-3-2 Class D Compliant (>0.98PF)

## OUTPUT SPECIFICATIONS:

OUTPUT VOLTAGE	-54V DC
OUTPUT CURRENT	100 Amps Max continuous
OUTPUT ADJUSTMENT	-40V ~ -58V DC
LINE REGULATION	$\pm 0.5\%$ max, across full input range
LOAD REGULATION	$\pm 0.5\%$ max, across full load range
RIPPLE	200mV p-p, max (20MHz BW)
SETPOINT ACCURACY	$\pm 1\%$
EXCURSION	$\pm 5\%$ max, 25% Step Load
RECOVERY	100ms max
OVER-CURRENT	105~130% (Auto-Recovery)
OV PROTECTION	59V ~ 60V DC

## STATUS & CONTROL SPECIFICATIONS:

CONTROL SIGNALS	All referenced to Output GND terminals
AC ALARM	If AC < 170V or > 280V AC
DC ALARM	If DC < -46V or > -58V DC
CURRENT SHARE	Single Wire $\pm 10\%$
RACK TEMP FAIL	If Rack Temp > 80C
BATTERY CHARGING	See Users Manual
COMMUNICATIONS	Ethernet/RS232/RS485

## GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	-20°C to +65°C
STORAGE TEMPERATURE	-40°C to +85°C
OPERATING HUMIDITY	10% ~ 95% (non-condensing)
STORAGE HUMIDITY	5% ~ 95% (non-condensing)
COOLING	Intelligent Fan Cooled Rectifier Modules
VIBRATION	10-55Hz, 2G, 3Min Period, 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>100K Hours (per MIL STD 217F)
SIZE (INCHES)	19" x 17.7" x 8.74" (W x L x H)
WEIGHT	44.1 Lbs

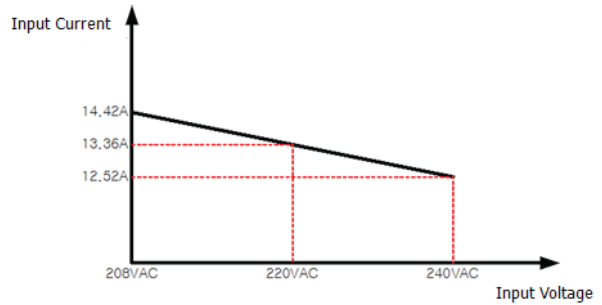


## EMISSIONS:

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

## SAFETY STANDARDS:

UL / CUL	60950-1
CE MARK	Low Voltage Directive



## OUTLINE DRAWING:

