



REV: 09232011

ITE / EMBEDDED POWER SUPPLY

## 19.2KW Power System -48V 400 Amps with Battery Monitoring & Charging

### PRODUCT FEATURES:

- Modular Design
- 8 Rectifier Modules for a Total of 400 Amps
- Battery Charger and Monitor
- Low Voltage Disconnect for Battery Protection
- N + 1 Rectifier Redundancy
- Full Featured Status and Alarm
- RS485 Interface
- Front Panel LED Indicator
- World Wide Safety Approval
- Rectifier VPRM5450 Rectifier Module
- Controller VPRC Control Module
- Safety Certifications Pending

### INPUT SPECIFICATIONS:

VOLTAGE	1Ø 220V (90V to 290V AC) or 3 Ø 380VAC (156VAC ~ 500VAC)
FREQUENCY	47-63Hz
INRUSH	50A Pk @ 230VAC (per module) Input Range (Max Cold Start)
CURRENT	13.5A @ 230 VAC (Max Continuous) (per module)
PROTECTION	Single A Fuse / 250 VAC
LEAKAGE	750uA Max @ 264 VAC
EFFICIENCY	88% Load 50% to 100%
HARMONICS	EN61000-3-2 Class D Compliant (>96 PF)

### OUTPUT SPECIFICATIONS:

ADJUSTMENT RANGE	-44V to -58V DC
MINIMUM LOAD	40 Amps per System
LINE REGULATION	±.5% Max over entire input range
LOAD REGULATION	±.5% maximum
TEMP REGULATION	±.5% maximum
RIPPLE	< 250mV pk-k max
OVER CURRENT	115-130% (Auto-Recovery)
OVER VOLTAGE PROTECTION	59V to 60V DC



### GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	-20 ~ +70°C (Derate 2.5% per °C above 50°C)
STORAGE TEMPERATURE	-40 ~ +85°C
COOLING	
HUMIDITY	5-95% (non-condensing)
VIBRATION	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>1 Million Hours (Per Mil STD ####)

### ELECTROMAGNETIC COMPATIBILITY:

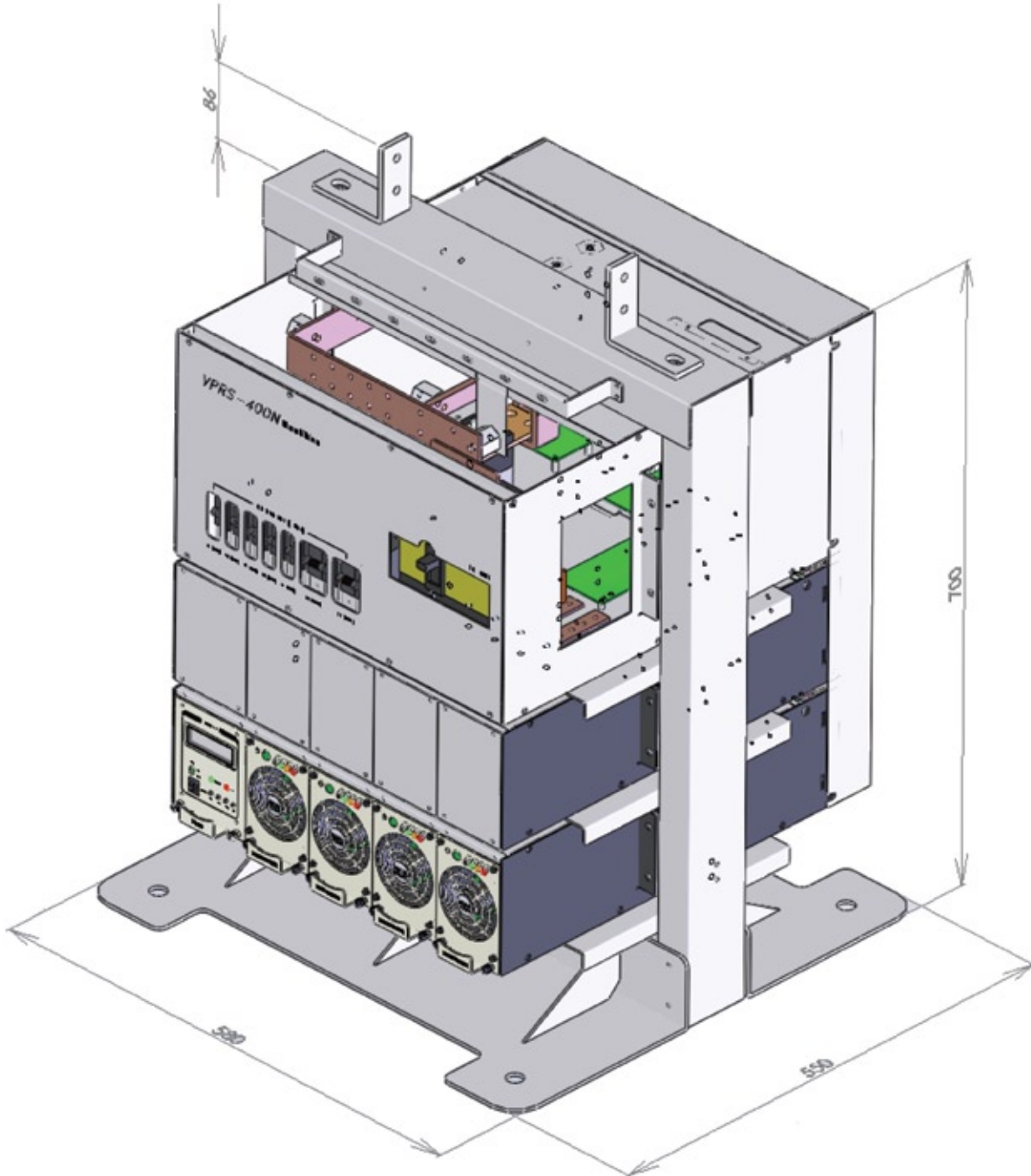
EMISSIONS	FCC PART 15 SUBPART B, CLASS A- 450kHz≤f≤1.6MHz: 1 mV (60dBA) or lower- 1.6MHz≤f≤30MHz: 3mV (69.5dB) or
ELECTROSTATIC DISCHARGE	EN61000-4-2, 4kV Contact / 8kV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
EFT / BURSTS	EN61000-4-4, 2kV
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
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 SIGNALS:

DC OK	High Signal indicates DC Output is on and within regulation
CURRENT SHARE	Single Wire Parallel
FAN FAIL	High Signal indicates Fan Failure
RECTIFIER FAIL	High Signal Indicates unit Failure
RECTIFIER OVER VOLTAGE	High Signal Indicate OV Condition
RECTIFIER LOW VOLTAGE	High Signal Indicate LV Condition



OUTLINE DRAWING:



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