



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:

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|------------|---|
| 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:

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|-----------------------|--|
| 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 ###) |

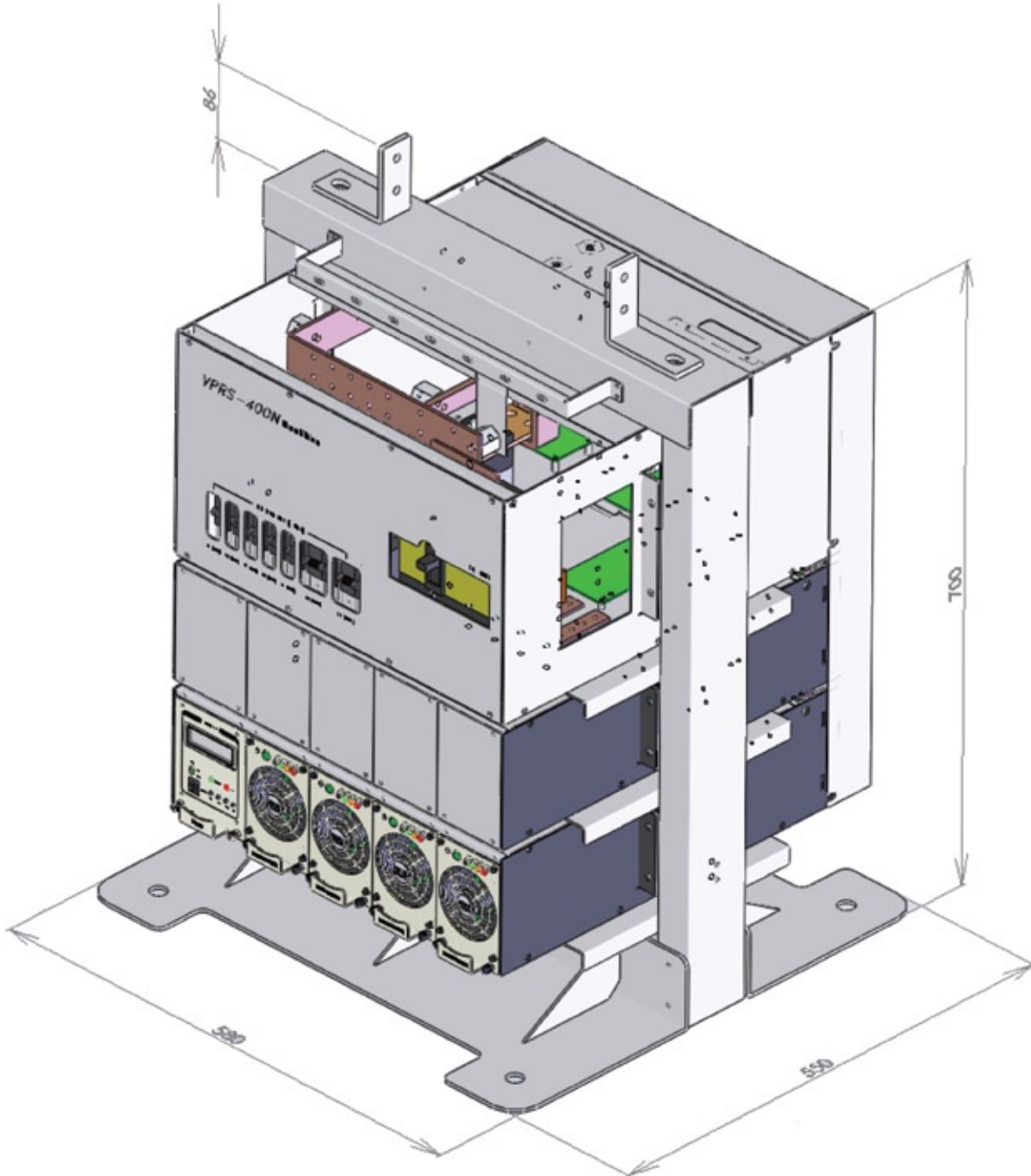
ELECTROMAGNETIC COMPATIBILITY:

| | |
|-------------------------|---|
| 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:

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|------------------------|---|
| 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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