



REV: 09232011

RECTIFIER ENERGY SYSTEM

## PRODUCT FEATURES:

- 6 Bay / 600 Amp Power Shelf
- Battery Charging and Monitoring Circuits
- Low Voltage Disconnect for Battery Protection
- Hot-Swap / N + 1 Redundant Operation
- Full Featured Status and Alarm
- RS485 Interface
- Front Panel LED Indicators
- Designed for Worldwide Safety Approvals
- Mates with CRM100V Rectifier Modules
- Works with CRC-600V Control Module
- Safety Certifications Pending



## INPUT SPECIFICATIONS:

VOLTAGE	1Ø (90V to 290V AC) or 3Ø (156VAC ~ 500VAC)
FREQUENCY	47-63Hz
INRUSH	50A Pk (Max Cold Start)
CURRENT	14 A @ 230 VAC (Max. Continuous) per Module
LEAKAGE	< 750uA Max @ 264 VAC
EFFICIENCY	87% (typical)
HARMONICS	EN61000-3-2 Class D Compliant (>98 PF)

## OUTPUT SPECIFICATIONS:

VOLTAGE / CURRENT	27V DC / 600 Amps
ADJUSTMENT RANGE	± 10% (Minimum)
LINE REGULATION	± .5% Max over entire input range
LOAD REGULATION	± .5% maximum
TEMP REGULATION	± .5% maximum
RIPPLE	± % or 50mV p-p max, (20MHz BW)
SETPOINT ACCURACY	±1%
OVER CURRENT	105-120% (Auto-Recovery)
OVER VOLTAGE PROTECTION	105-115% (recycle input to reset) per Module
SHORT CIRCUIT	Auto-Recovery

## STATUS & CONTROL SPECIFICATIONS:

REMOTE SENSE	Compensates for up to 250mV drop
AC OK	Active High 500ms after AC Input is applied
DC OK	Active High indicates Output is within regulation
CURRENT SHARE	Single Wire Parallel up to 5 units within ± 10%
VOLTAGE TRIM	Remote Margin V1 ± 5% minimum
FAN FAIL	Active High Indicates Fan Failure
LVD	Disconnect Batteries if Battery Voltage <42V DC

## GENERAL SPECIFICATIONS:

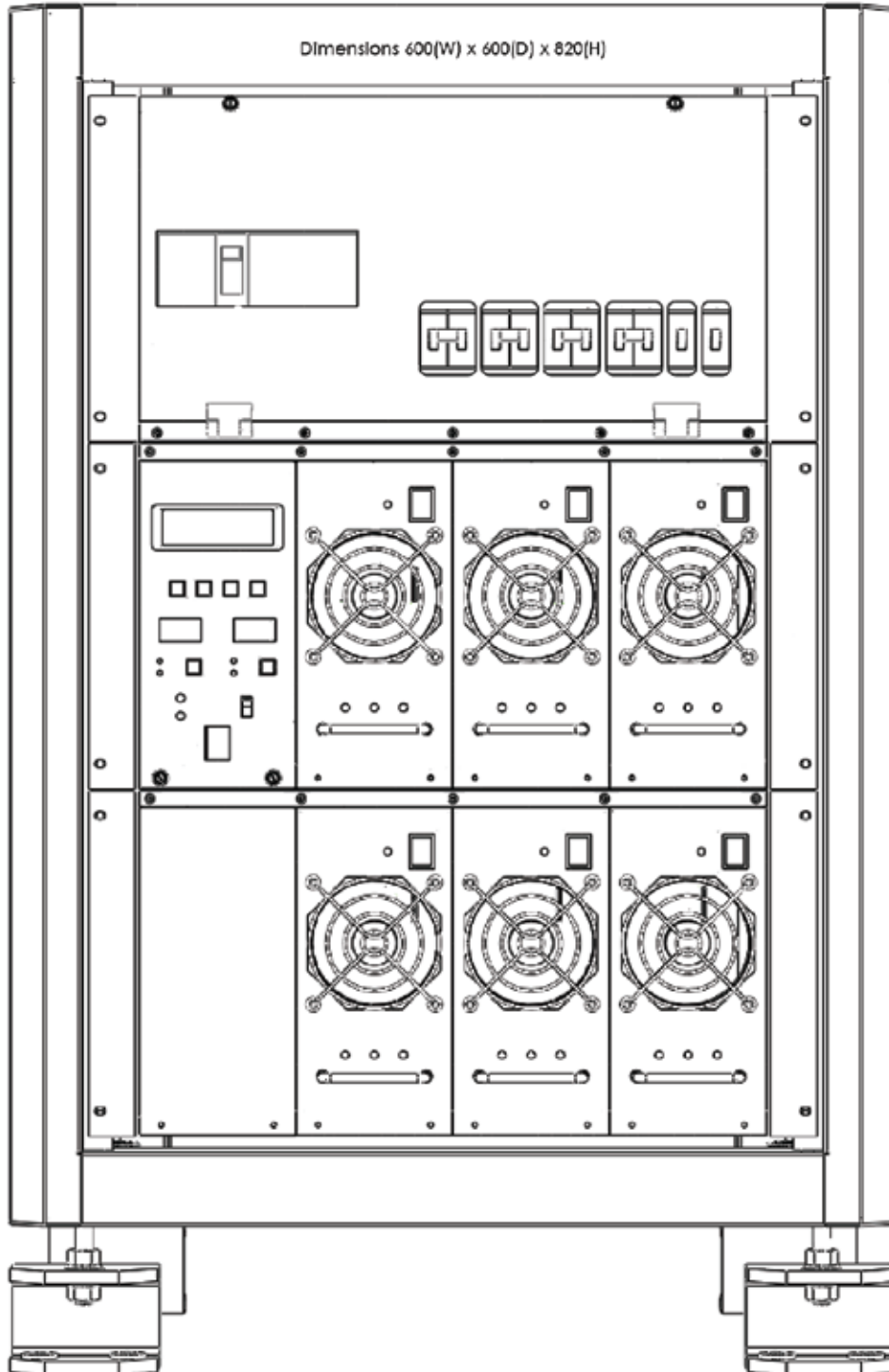
OPERATING TEMPERATURE	0°C ~ 50°C
STORAGE TEMPERATURE	-40°C ~ 90°C
OPERATING HUMIDITY	5% ~ 90% RH (non-condensing)
STORAGE HUMIDITY	5% ~ 90% RH (non-condensing)
COOLING	Forced Air Cooling
SIZE (INCHES)	23.6" x 23.6" x 32.3"

## EMISSIONS:

EMISSIONS	EN55022 Level A (Conducted)
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



OUTLINE DRAWING:



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