Incredible Functionality in a 1 RU DC Power System, 600 to 1800 Watts

- 19”, 1U rackmount shelf with integrated power distribution and SNMP digital controller
- 90-250 VAC input, power factor corrected, no derating at 120V input
- 3 power bays accept 600 watt modular rectifiers, -48V
- 33 amp, 1800 watt total output capacity
- Output temperature compensated for precise battery charging
- 4 DC circuit breaker distribution capacity, with tripped breaker alarm
- Master disconnect breaker for two battery banks, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP interface and SNMP monitoring and logging
- Alarm contacts monitor system functions
- Low voltage disconnect built-in
- Easily configures to meet site power requirements

Complete system design and assembly to your application parameters: Rectifier configuration, distribution circuit breaker installation, and programming of alarms and monitors. Installation in a relay rack with batteries and wiring also available.

<table>
<thead>
<tr>
<th>Watts Per Rectifier</th>
<th># of Rectifiers Installed</th>
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</thead>
<tbody>
<tr>
<td>600</td>
<td>11A (600W)</td>
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<tr>
<td></td>
<td>22A (1200W)</td>
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<tr>
<td></td>
<td>33A (1800W)</td>
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Specifications

AC Input
- Nominal: 115 or 230V
- Voltage Range: 90-300V
- Frequency Range: 45-65 Hz
- Power Factor: >0.99
- Efficiency: >92% (from 50% output power)

DC Output
- Voltage: -48 volt
- Output Ratings: Constant power output from 54V to 58V
- Nominal Voltage: 48V
- Rated Voltage: 58V

Power:
- Rated maximum System Output Power: 1800W @ 54V
- Individual Rectifier Power: (48 volt) 600 watt Amperage @155 or 230 vac in 4.2

DC Distribution:
- Load: 4 breaker position capacity, available amperages (specify) 6A, 10A, 20A.
- Battery: 30A, with tripped breaker alarm 2 x 30A battery circuit breakers.
- Breaker Fail Detection: Electronic fail detection on both load and battery. Breakers
- Low Voltage Battery Disconnect: 80A battery LVD installed standard, with disconnect alarm

Monitoring & Control:
- Monitors all power system conditions including DC voltage, rectifier current, battery current, battery temperature, and distribution failure. Visual notification of alarm conditions by LED’s and a 4 line x 16 character alpha numeric display mounted on the front panel, with remote notification being enabled by relay contacts, RS232 or TCP/IP (using SNMP). It has a built-in web based configurator allowing setup of system parameters using a web browser and utilizes a USB communications port which allows for local monitoring of system operations as well as easy downloading of configuration files for multiple site installations.

General System

Protection:
- Current Limit: Adjustable to 50-100% of maximum rated current.
- Over Temperature: Automatic current reduction, backup shutdown protection.
- Polarity Reversal: Output fuse with crowbar diode
- Over Voltage: Adjustable limit.
- Input Voltage: Auto shutdown, auto restart when correct voltage restored.
- Input Inrush: <2x maximum input current.
- Input Fuses: In phase and neutral.

Technical Characteristics:
- Noise: Ripple <100Hz: <1mV rms unweighted
- Voice band 100Hz-5KHz: <2mV rms psophometric
- Wide band 5kHz-1MHz: <5mV rms unweighted
- Peak to Peak 0-20MHz: <50mV peak to peak
- Isolation: Input to Output: 4000V DC.
- Input to Chassis: 3500V DC (VDR to chassis removed)
- Output to Chassis: 2100V DC
- Regulation: Line = ±0.1%, Load = ±0.5% (no load to full load)

Mechanical
- Shelf: Dimensions 19” W x 1.75” H x 10.2” D
- Weight: 19.84 Lbs. (excluding rectifier modules)
- Rectifiers: Dimensions 2.2” W x 1.7” W x 9.25” D
- Weight: 1.7 Lbs
- Cooling: Forced cooled.

Environmental
- Ambient Temperature: Range: -20° to +70° C, Derating above 50° C
- Range: -20°C to +70°C (maximum output power is derated above +50°C)
- Storage: -20°C to +70°C
- Humidity: 0-98% RH (non-condensing)
- Altitude: <8,202 ft., De-rate max. ambient temperature by 4°C per 3,280 ft. above sea level.

Compliances
- Safety: EN60950
- Electrostatic Discharge: CISPR24
- Radiated Radio Freq: CISPR22
- AC Harmonics: EN61000-3-2
- AC Flicker & Fluctuation: EN61000-3-3
- Other: CE & RoHS compliant