



REV: 09232011

ITE / EMBEDDED POWER SUPPLY

Indoor Power Shelf  
27VDC / 112A Output

## PRODUCT FEATURES:

- **Modular Design**
- **19" Rack Mountable**
- **2 Rectifier Modules for a total of 112 Amps**
- **Battery Charge and Monitor**
- **Low Voltage Disconnect for Battery Protection**
- **Full Featured Status and Alarm**
- **RS485 Serial Interface, TCP / IP**
- **Front Panel LCD Indicator**
- **World Wide Safety Approval**
- **Rectifier DRM-260 Rectifier Module**
- **Controller DSC Control Module**
- **Safety Certifications Pending**



## INPUT SPECIFICATIONS:

|            |  |
|------------|--|
| VOLTAGE    | 1Ø 220 VAC (±20%)                        |
| FREQUENCY  | 47-63Hz                                  |
| INRUSH     | 20A @ 230VAC (Max Cold Start) per Module |
| CURRENT    | 10A @ 230VAC (Max Continuous) per Module |
| PROTECTION | Double pole 15A Fuse / 250AC per Module  |
| LEAKAGE    | 750uA Max @ 264VAC per Module            |
| EFFICIENCY | 91% Typical                              |
| HARMONICS  | EN61000-3-2 Class D Compliant (>98PF)    |
| PROTECTION | Input Undervoltage, Overvoltage          |

## OUTPUT SPECIFICATIONS:

|                         |                                   |
|-------------------------|-----------------------------------|
| VOUT                    | 27VDC                             |
| IOUT                    | 112A with 2 Modules               |
| ADJUSTMENT RANGE        | 21VDC ~ 29VDC                     |
| LINE REGULATION         | ±0.5% Max over entire input range |
| LOAD REGULATION         | ±0.5% Maximum                     |
| TEMP REGULATION         | ±0.5% Maximum                     |
| RIPPLE                  | ±0.5%                             |
| SETPOINT ACCURACY       | ±0.5%                             |
| OVER CURRENT            | 105~130%                          |
| OVER VOLTAGE PROTECTION | 29VDC (recycle input to reset)    |
| PROTECTION              | Thermal Shutdown                  |
| PROTECTION              | Battery Thermal Compensation      |

## STATUS & CONTROL SIGNALS:

|               |   |
|---------------|---|
| DC OK         | High Signal indicates DC Output is on and within regulation |
| CURRENT SHARE | < 10% of nominal current                                    |
| INTERFACE     | RS485, TCP/IP (SNMP)  |
| BATTERY       | Low Voltage Disconnect                                      |

## GENERAL SPECIFICATIONS:

|                       |   |
|-----------------------|---|
| OPERATING TEMPERATURE | -40°C to +65°C, derating above +50°C                |
| STORAGE TEMPERATURE   | -40°C to +85°C                                      |
| OPERATING HUMIDITY    | 10% to 90% (non-Condensing)                         |
| STORAGE HUMIDITY      | 5% to 95% (non-Condensing)                          |
| COOLING               | Internal Thermally Controlled Fan in each rectifier |
| VIBRATION             | 10-55Hz, 2G, 3min period/60min each (3 axes)        |
| SHOCK                 | 20G Peak Acceleration                               |
| RELIABILITY           | 150,000 Hrs MTBF                                    |
| ALTITUDE              | 0-10,000 Feet                                       |
| SIZE (W x D x H)      | 109 x 335 x 43mm (Module)                           |

## ELECTROMAGNETIC COMPATIBILITY:

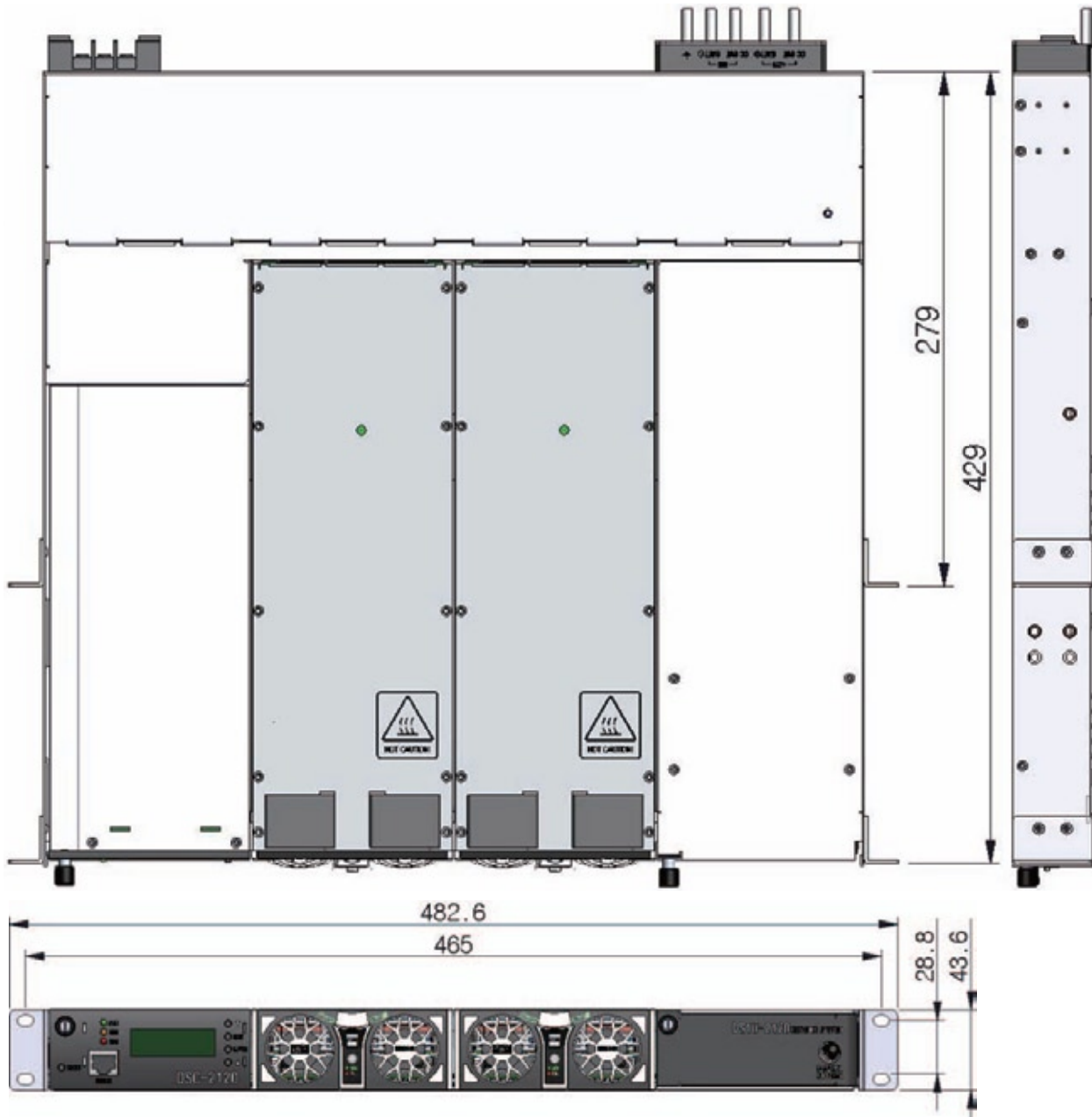
|                         |   |
|-------------------------|---|
| EMISSIONS               | EN55022 Level B (Conducted)                   |
| ELECTROSTATIC DISCHARGE | EN61000-4-2, 4kV Contact / 8kV Air            |
| RADIATED SUSCEPTIBILITY | EN61000-4-3, 26-1000MHz, 10V/M, 80%AM         |
| EFT / BURSTS            | EN61000-4-4, 2kV                              |
| SURGE                   | EN61000-4-5                                   |
| 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                                   |

# DS1U-2120

the  
**POWER**  
you need

## OUTLINE DRAWING:

Indoor Power Shelf  
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