

Indoor Power Shelf

-54.5VDC / 140A Output

## VPRS-4175E

### Product Features:

- Hot pluggable
- n+1 Redundancy
- The system can be controlled, measured and reported by SNMP
- Automatic battery charging (Floating mode with temperature compensation)
- Low voltage disconnect for the battery protection



### Input Specifications:

<b>VOLTAGE</b>	1Ø3W 220V
<b>FREQUENCY</b>	45-65Hz
<b>INRUSH</b>	50A @ 220VAC(Max Cold Start) per Module
<b>CURRENT</b>	4.0A @ 220VAC(Max Continuous) per Module
<b>PROTECTION</b>	Double pole 10A Fuse / 250VAC per Module
<b>LEAKAGE</b>	10mA Max @ 264VAC per Module
<b>EFFICIENCY</b>	91% Typical
<b>HARMONICS</b>	EN61000-3-2 Class D Compliant (>98PF)
<b>PROTECTION</b>	Input Under voltage, Overvoltage

### General Specifications:

<b>OPERATING TEMP</b>	-5°C to +65°C
<b>STORAGE TEMP</b>	-10°C to +65°C
<b>OPERATING HUMIDITY</b>	10% to 90% (Non-Condensing)
<b>STORAGE HUMIDITY</b>	5% to 95% (Non-Condensing)
<b>COOLING</b>	Convection cooling
<b>SHOCK</b>	20G Peak Acceleration
<b>RELIABILITY</b>	150,000 Hrs MTBF
<b>ALTITUDE</b>	0~10,000 Feet
<b>SIZE(W×D×H)</b>	483 × 450 × 310mm

### Output Specifications:

<b>Vout</b>	-54.5VDC
<b>Iout</b>	35Amax
<b>ADJUSTMENT RANGE</b>	-44VDC~-59VDC
<b>LINE REGULATION</b>	±0.5% Max over entire input range
<b>LOAD REGULATION</b>	±0.5% Maximum
<b>TEMP REGULATION</b>	±0.5% Maximum
<b>RIPPLE</b>	≤ 100mVp-p(10Hz~14MHz)
<b>SETPOINT ACCURACY</b>	±0.5%
<b>OVER CURRENT</b>	105~130%
<b>OVER VOLTAGE</b>	-59VDC(recycle input to reset)
<b>PROTECTION</b>	Thermal Shutdown Battery Temp. Compensation

### Electromagnetic Compatibility:

<b>EMISSIONS</b>	EN55022 Level A (Conducted)
<b>ELECTROSTATIC DISCHARGE</b>	EN61000-4-2, 4KV Contact / 8KV Air
<b>RADIATED SUSCEPTIBILITY</b>	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
<b>EFT/BURSTS</b>	EN61000-4-4, 2KV
<b>SURGE</b>	EN61000-4-5
<b>CONDUCTED IMMUNITY</b>	EN61000-4-6, 0.15-800MHz, 10V 80%
<b>VOLTAGE DIPS</b>	EN61000-4-10, 95% Dip&10ms, 30% Dip&500ms
<b>VOLTAGE INTERRUPTIONS</b>	EN61000-4-11, 95% reduction, 5ms
<b>FLUCTUATIONS &amp; FLICKER</b>	EN61000-3-3

### Status & Control signals:

<b>COMMUNICATION</b>	High Signal indicates DC Output is on and within regulation
<b>INTERFACE</b>	RS485, TCP/IP

### Standards & Approvals: TBD

<b>UL/CUL</b>	60950
<b>CE MARK</b>	Low Voltage Directive
<b>TELCORDIA</b>	Nebs Compliant (Level3)

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Outline Drawing:

