

VPRS-430

Indoor Power Shelf
-54.5VDC / 30A Output

Product Features:

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



Input Specifications:

VOLTAGE	1Ø3W 220V
FREQUENCY	45-65Hz
INRUSH	50A @ 220VAC(Max Cold Start) per Module
CURRENT	4.0A @ 220VAC(Max Continuous) per Module
PROTECTION	Double pole 10A Fuse / 250VAC per Module
LEAKAGE	10mA Max @ 264VAC per Module
EFFICIENCY	88% Typical
HARMONICS	EN61000-3-2 Class D Compliant (>98PF)
PROTECTION	Input Under voltage, Overvoltage

General Specifications:

OPERATING TEMP	-10 °C to +55 °C
STORAGE TEMP	-20 °C to +60 °C
OPERATING HUMIDITY	10% to 95% (Non-Condensing)
STORAGE HUMIDITY	10% to 95% (Non-Condensing)
COOLING	Convection cooling
SHOCK	20G Peak Acceleration
RELIABILITY	150,000 Hrs MTBF
ALTITUDE	0~10,000 Feet
SIZE(W×D×H)	483 × 380 × 133mm

Output Specifications:

Vout	-54.5VDC
Iout	15Amax
ADJUSTMENT RANGE	-44VDC~-59VDC
LINE REGULATION	±0.5% Max over entire input range
LOAD REGULATION	±0.5% Maximum
TEMP REGULATION	±0.5% Maximum
RIPPLE	≤ 100mVp-p(10Hz~14MHz)
SETPOINT ACCURACY	±0.5%
OVER CURRENT	105~130%
OVER VOLTAGE	-59VDC(recycle input to reset)
PROTECTION	Thermal Shutdown Battery Temp. Compensation

Electromagnetic Compatibility:

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
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

Status & Control signals:

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

Standards & Approvals: TBD

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

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Outline Drawing:

