PS-R-V4-M

PowerShift® V4 Main Shelf accommodates up to 3 boost modules (3 separate circuits per boost module for a total capacity of 9 RRUs) providing 24,372 watts of output power. Can be expanded to accommodate up to 6 boost modules powering 18 RRUs.

- Reduced capital/operating expenditures
- Engineering flexibility
- Future-ready design

PowerShift® Macro V4 Main Shelf delivers the optimal voltage to your RRUs in real-time, automatically—regardless of power supply, distance, conductor size, or RRU power requirements. It optimizes backup power delivery by solving the voltage-drop problem. Inserted between the battery and trunk cable, PowerShift automatically senses and adjusts the battery's voltage output to the power cable to compensate for the voltage drop. As the battery discharges, PowerShift continues to boost output to maintain the optimal input voltage to the RRU to increase battery backup time. PowerShift® V4 Main Shelf accommodates up to 3 boost modules (PS-2000-73) per 1RU shelf. There are 3 separate circuits per boost module for a total capacity of 9 circuits (RRU's) per 1 RU shelf. Each circuit provides a maximum output of 2,708 Watts at 73Vdc and has an integrated bypass function that automatically passes the input power through to the load connections in case of a circuit failure. After the controller (PS-CNTRL-V4) calculates the voltage drop in the power cable due to line resistance, each circuit delivers about 2,000W at 54Vdc to the RRH input. The V4 Main Shelf can be expanded by adding an extension shelve (PS-R-V4-S) to power up to 18 circuits (RRU's) in 2 Rus.

- Reduced capital/operating expenditures
- Dynamic voltage regulation to the RRUs
- Service continuity with improved battery backup run time
- Significantly reduce installation time & wiring errors
- Future-ready design for higher-powered radios

Product Classification

Regional Availability	Latin America | North America
Product Type	Shelf
Product Brand	PowerShift®
Product Series	V4
Warranty	For more information, please consult our Product Warranty guidelines

General Specifications

Application	Mounts PowerShift® modules
Backplane Interfaces	10/100 Base-T Ethernet | One Galaxy Protocol (GP) RS485 bus
Color	Silver metallic
Rack Type	EIA 19 in
Rack Units	1

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Shelf Movement	Fixed

Dimensions

Height	44.45 mm | 1.75 in
Width	482.6 mm | 19 in
Depth	609.6 mm | 24 in

Electrical Specifications

Input Voltage Range	-38 to -58 Vdc
Input Voltage, nominal	-54 Vdc
Output Power Connections, quantity	9
Output Voltage Range	-48 to -73 Vdc
Output Voltage, nominal	-54 Vdc
Electrical Safety Standard	CAN/UL62368-1 | CE | UL60950-UL/cUL with CB report
Power Efficiency	97 %

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Relative Humidity	Up to 95%, non-condensing
Standards Compliance	EN 55022 (Emissions) | RoHS Compliant | Telcordia™ GR-1089 Lightning /Surge | UL/cUL 62368

Packaging and Weights

Packaging quantity	1
Weight, net	5.761 kg | 12.7 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

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* Footnotes

Warranty   For more information, please consult our Product Warranty guidelines