

PowerShift® PS-2000-73

Rev B 07/2025

TYPE: PS-2000-73 PowerShift® Module

Product Series: V4



1. Key Features

- 2,708kW max power output per circuit at the output of module
- 3 independent boost circuits per module with 3 independent bypass circuits
- Module total power 8.124kw
- 1RU form factor
- Integrate by-pass into boost module

2. Physical Specs

Per Circuit:

Input

Input Voltage Range:	-54 VDC Nominal, -40.0 to -58.0 VDC Range (Reverse Polarity Protected)(Must be above -44V to start) must shutdown in -40VDC
Input Current Range:	0 to 66 AMPS @ -40 VDC per circuit (200A per module)

Output

Output Voltage Range Boost:	-48 to -73 VDC at output terminals (2708W Boost) (Output terminal voltage is never less than input voltage)
Output Voltage Range Bypass:	-40 to -58 VDC at output terminals (2152W Bypass)
Output Current on Boost:	0 to 37.1A Max (with Overcurrent Shutdown)
Output Current on Bypass:	0 to 37.1A Max (with Overcurrent Shutdown)
Output Voltage Ripple:	750 mV RMS maximum
Total Power Output:	Circuit 2708 WATTS maximum (37.1 Amps X 73 Volts)
In-rush Current at Output:	Ability to handle RRU/AAU in rush current up to 66A magnitude for a duration of at least 3 milli-seconds
Programmed RRU Voltage:	-54 VDC Default, VDC Range (-54 to -58V, 0.5 Volt Increments)
Programmed Current Limit:	Ability to individually select max current output on each circuit. Radio Button to select current limit - 32A or Max(Default)
Output Voltage Algorithm:	Dynamically adjustable voltage to maintain input voltage at RRU
Cable Resistance Set:	Ohms [default - .10 Ohm] and max is 1.00 Ohm for cable loop resistance
Output Circuit Disconnect:	Via System Controller Display

Efficiency:	>=97% @>=50% load at nominal input voltage, output voltage, and 25C ambient temperature, >=95% @>=50% load with worst case input voltage, temperature, output voltage
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Weight: 5.3lbs(2.4kg)
Size: 44.45 mm high (1 RU), width and depth are limited by the shelf

Environmental per GR-3108 Class 2, EN 300 019

Operating temperature	-40 to 65C ((NEBS Class 2) with no derating.
Storage temperature	-40 to 85C
Humidity/Temp cycling	per GR-3108 section 4.6, non-condensing
Vibration, transport	GR-3108 section 6.3.3
Packaged drop	GR-3108 section 4.4
Vibration, product	GR-3108 section 6.1 and 6.3.3
Shock, operating	IEC 60068-2-27 (1)
Salt fog	Shelf - Utilizes a clear Zinc per ASTM B633-07 TYPE 5, SC 2 post plate.

Fan fail	GR-3108 section 4.6.1
Seismic resistance	GR-3108 section 6.1 + 6.3.3
Cold start	GR-3108 section 4.5.1
Hot start	GR-3108 section 4.5.2
Acoustics	GR-3108 section 6.6
Fire resistance	GR-3108 section 6.5

MTBF:	300,000 hours @ 25C per Telcordia SR-332
Design Life Expectancy:	5 year
EMC:	EN55022 Class A
Surge Protection :	Telcordia GR-1089
Safety:	UL 62368 - UR/cUR with CB Report
RoHS:	Compliant
Terminals:	Compliant w/NEBS
Labeling:	Dual Company Labeled

