Dual 48VDC PDA

1U-high Dual Power Distribution Assembly

Product Datasheet

FEATURES

Compact Design
Just a single 1U-high PDA is needed to distribute power from *two* 48VDC Uninterruptible Power Supplies, minimizing space needed in cabinets, racks and transit cases.

Efficient Power Distribution
This 1U-high PDA is designed to distribute two 30A 115VAC shipboard delta power input circuits to two separate 48VDC UPS's, and redistribute 48VDC output power from each UPS to up to nine loads total.

Built specifically for Military Applications
Designed with mil-spec components to pass heavyweight shock, vibration, EMI, and electrical testing.

Smart Load-shedding
Output loads are automatically disabled in order from least important to most important should any individual or combined load exceed maximum output power capabilities.

Redundant Auxiliary Output
An Auxiliary output connector is powered from both UPS's to provide up to 200W of redundant power for a rack fan, KVM, or other HMI equipment.

Rugged Steel Chassis
The **48VDC PDA** is housed in a compact, rugged steel chassis intended for use in 19" rack-mount applications.

Rack-mount
Adjustable slide-mount kit fits 19" rack-mount applications with depths 22-28"

OPTIONS

Temperature Sensor
External temperature sensor available to compliment internal temperature alarms and replicated UPS temperature alarms.

BENEFITS:

- Military rack-mount power distribution of ±48VDC
- Rugged, MIL-STD design
- *One* 1U-high PDA works with *two* 48VDC UPS's
- Designed for use in ATCA applications
- MIL-STD connectors
- User replaceable fan filter

NOVA
POWER SOLUTIONS, INC.

NOVA Power Solutions, Inc. has supplied power protection and conditioning, and conversion products for shipboard, tactical and rugged industrial applications since 1988.

Product Datasheet

P/N: NPS2500482K-PDA

Standard Features

- MIL-STD connectors
- Input EMI filter
- Rugged steel chassis
- Adjustable, fixed-mount slide rails for depths 22-28”
- Locking toggle load switches
- Rocker-actuated circuit breakers with built-in finger guards
- LED alarms and indicators
- Over-temperature alarm for PDA and UPS (external also available)

ELECTRICAL	
Input Voltage	92-155VAC, single-phase
Input Frequency	47-64Hz
Output Voltage	-42 to -60VDC
Output Current	45.8A max
AC Input Circuit Breaker	Two 30A
DC Input Circuit Breaker	Two 50A 80VDC
Continuous Output Power	2450W max; 4900 max total
Efficiency	AC: 99%, DC: 98% (@ 2450W)
ENVIRONMENTAL	
Operating Temperature	0°C to 50°C
Storage Temperature	0°C to 50°C
Humidity	10% to 95% (non-condensing)
Altitude	0 to 15,000 ft
MECHANICAL	
Dimensions	1.75”H x 17”W x 22”D
Weight	16lbs
Cooling	Forced-air
Airflow	Left to Right
Input/Output Connectors	MS3102-type
Status/Signal Connectors	DB9-type
Ground Stud	10-32 ¾” SS
DESIGNED TO PASS	
Electrical	MIL-STD-1399, Section 300B
EMI	MIL-STD-461F: CE101, CE102, CS101, CS114, RE101, RE102, RS101 and RS103
Shock	MIL-S-901D, Heavyweight, Grade A , Type II
Vibration	MIL-STD-167-1A

REAR VIEW

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