

Powering The Network



Network DC Power Solutions:

NEW! Power Enclosures

Power Systems

DIN-Rail DC UPS

Converters

Inverters

DC Distribution

Monitoring

Low Voltage Disconnects

Power Management

Batteries

Accessories



Unity Power System: 12 & 24 Volt



The Unity Rectifier System comprises a low profile 1.75" (1RU) shelf which accommodates up to three 150 watt, -48 or +24 volt hot swap rectifiers, plus an optional GMT fuse distribution panel which contains five individually fuse protected circuits. The system is scalable/adaptable for N, N+1 or N+2 configurations. Front panel test points and voltage adjustment pot are provided for fine-tuning output to the requirements of sensitive loads and to optimize load sharing. Form C status contacts enable remote alarms for the rectifiers and fuse distribution circuits. Front panel OK/FAIL LED's allow monitoring status of each rectifier individually. The optional power distribution module employs industry standard GMT fuses, configured with alarm contacts and a front panel "BLOWN FUSE" LED indicator.

Features

- 150 watt rectifier units 48 or 24 volt, slide and lock into the Unity Shelf
- Shelf accommodates up to three rectifiers 450 watts total - plus an optional five-position GMT fuse panel
- Scalable/adaptable hot swap configuration: N, N+1, N+2
- Front panel status indicators, output voltage test points and adjustment potentiometers
- Individual or summary rectifier alarm contacts; Form C

- Summary fuse panel alarm contacts; Form C
- Forced air cooling of rectifiers for extended component life
- 115/230 VAC shelf/rectifier input easily adapts to available site power
- GMT fuse panel: Five positions, easy rear panel wiring to loads, fuse access at front
- Shelf adapts for 19" or 23" rack; center or flush mount (four-point cabinet mount optional)

Shelf	Input	Capacity	Size	Weight
URS	115/230 VAC Nom.	3 Unity Rectifiers (-48 or +24 V), 1 GMT fuse panel	19/23" Rackmount, 1 RU	6.7 lbs.

Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Output Amps Cont.	Watts	Size	Weight
UR48-3	2.2/1.1	-54.4 VDC, adjustable 42-56 VDC	3	150	1 RU	1.9 lbs.
UR24-6	2.2/1.1	+27.2 VDC, adjustable 21-28 VDC	6	150	l RU	1.9 lbs

GMT Panel	Nominal Input/Output	Total Fuse Fuse Capacity	Total Current Capacity	Size	Weight
UFP-5	-48 or +24 VDC	5	20A	1 RU	l lbs.

Optional System Component



Unity Low Voltage Disconnect & Monitor

Digital battery monitor and alarm panel with Low Voltage Disconnect integrates with the Unity rack mount shelf into a highly functional power system. Built-in features include: LVD, digital monitor of voltage and amperage, battery disconnect breaker and alarm contacts. The digital display monitors bus voltage, battery voltage, system output current and low voltage connect/ disconnect set points.

Model	Voltage Range	Max. Continuous Current	Low Voltage Battery Disconnect	Size	Weight
ULM-100	8 - 65 VDC	100 Amps DC	100 Amp, Solid State (FET)	19/23″, 1 RU	6.25 lbs.



Newport Beach, CA USA

Powering the Network

Scout Power System: 12 Volt



The Scout is a compact, high power density 12 volt rackmount power system that brings telecom power technology to 12 volt base station radio applications to power transmitters and maintain back-up batteries. Its dual 100 amp hot swap rectifiers configured in N+1 redundancy provides fault tolerant reliability. Remote monitoring capability provides system administrators with operating status.

Features

- Redundant hot swap rectifiers provide high system reliability
- Powers transmitters and maintains back-up batteries
- 100 amp output per module 200 amp system capacity
- Controller module provides Web based remote monitoring and alarms, and LCD digital display of DC volts and amps

Specifications

Input

Voltage: 90 - 264 VAC, 50 - 60 hz. via IEC C19/20 socket (x2) Current (per module): 13 amps @ 115 VAC, 7 amps @ 230 VAC

Output

Voltage: 13.6 VDC, adjustable 10.5 - 14.0 VDC Power (per module): 1200 watts, 100 amps @ 230 VAC input, 1140 watts, 95 amps @ 115 VAC input

Protection: Short circuit, overvoltage, current limit, over-temperature

- Compact 1U rackmount shelf
- Optional: LVD, power distribution shelf, & expansion shelf
- Four programmable Form C alarm relay contacts
- Abnormal condition event log: over voltage protection, overload protection, output short circuit protection, overtemperature protection, internal over-temperature alarm, low AC power shutdown, and fan malfunction protection

Monitors

- LCD Digital Display: DC volt and current
- Remote via Ethernet (web page)
- . DC ok via TTL
- AC fail
- Over-temp
- Fan fail

Operating Temperature: -40 to + 70° C

Mechanical: 19" rackmount, flush, 1RU, 13.75" depth

Safety Compliance: UL 60950

# of Rectifiers Installed					
Input	1	2			
230 VAC	100 Amps, 1200 Watts	200 Amps, 2400 Watts			
115 VAC	95 Amps, 1140 Watts	190 Amps, 2280 Watts			

Optional System Component: Low Voltage Disconnect, Circuit Breaker Distribution Shelf with DC System Bus/Tie Points Creates Complete Power System



PFM-500 Power Function Manager, 500 amps

Powering t

Preliminary specifications subject to change without notice.

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Sentinel Power System: 48 Volt



- 19", 1U rackmount shelf with integrated power distribution and SNMP digital controller
- 90-250 VAC input, power factor corrected
- 3 power bays accept 600 watt modular rectifiers, -48V
- 33 amp, 1800 watt total max. output capacity
- Output temperature compensated for precise battery charging
- 4 DC circuit breaker distribution capacity, with tripped breaker alarm
- Master disconnect breaker for two battery strings, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP Web interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions
- General Purpose Digital Inputs for user configured external alarms
- Low voltage disconnect built-in
- Easily configures to meet site power requirements

Complete system design and assembly to your application parameters: rectifier configuration, distribution circuit breaker installation and programming of alarms and monitors. Installation in a relay rack with batteries and wiring also available.

Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Output Amps Cont.	Watts	Weight
RM-648	5.8/2.9	-54.4 VDC, adjustable 54 - 58 VDC	11A	600	1.9 lbs.
Shelf	Input Voltage Range	Configuration	Size		Weight

SRS-48	90-300V, 45-65 Hz.	3 Sentinel Rectifiers (-48 V bays), Controller, 4 DC Circuit Breaker Distribution, 2 x 30A Battery Breakers	19/23"*, 1 RU	19.84 lbs.

* 23" adapters required, model SRS-1U

Smart Power Features

Newmar power systems embed the latest technology in smart software to provide the ultimate in intelligent system functionality.

Elements include:

- Smart Set-Up: An extensive menu of system parameters for customization per site
- Smart On-Site Data Viewing: All system data accessible on-site by laptop via USB
- Smart Viewing by Web: Voltages, load, and battery performance data (Ethernet, RJ45)
- Smart Automatic System Adjustments: Temperature Compensated charging, low voltage disconnect, battery equalization, fast charging
- Smart Alarm Notifications: Voltage, temperature as well as several user defined

General Specifications

AC Input Nominal: 115 or 230VAC (power cord with NEMA-5-20 plug attached

DC Distribution

Load: 4 breaker position capacity, available amperages (specify) 6A, 10A, 20A, 30 amp, with tripped breaker alarm

Battery: 2 x 30A battery circuit breakers, with tripped breaker alarm

Low Voltage Battery Disconnect: 80A battery LVD installed, with disconnect alarm

Wiring Option: Battery Cable, 8 AWG, 7' Length (P/N: 433-8007-0)



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Centurion II Power System: 24 & 48 Volt



Incredible Functionality, Scalability and Web Monitoring in a 2 RU, 1.0 to 6.0 Kw, -24/48V DC Power System

- 19", 2U rackmount shelf with integrated power distribution
- 90-250 VAC input, Power Factor Corrected
- 3 power bays accept 1000 or 2000 watt modular rectifiers
- 111 amp, 6000 watt total max. output capacity, (74 Amp, 4000 Watt, N+1) @ - 48 VDC
- Output temperature compensated for precise
 battery charging
- 16 DC circuit breaker distribution capacity, with tripped breaker alarm
- Master disconnect breakers for two battery strings, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP Web interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions and dry contacts for user programmable alarms
- General Purpose Digital Inputs for user configured external alarms
- Low voltage disconnect built in
- Easily configures to meet site power requirements

Complete system design and assembly to your application parameters: rectifier configuration, circuit breaker installation, and programing of alarms and monitors. Installation in a relay rack with batteries and wiring also available.

			Output		
Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Amps Cont.	Watts	Weight
C2R-1000	@ <175 VAC = 6.2A	-54.4 VDC, adjustable 48 - 58 VDC	18A*	1000	3.5 Lbs.
C2R-2000	@ <175 VAC = 12.5A	+27.2 VDC, adjustable 24 - 29 VDC	37A*	1000	3.5 Lbs.
C2RX-2048	@ <175 VAC = 12.5A	-54.4 VDC, adjustable 48 - 58 VDC	37A*	2000	3.5 Lbs.

* @ 120 VAC: Derate 2 kW rectifiers 41%; 1kW rectifiers 33%

Shelf	Input Voltage Range	Configuration	Size	Weight
C2RS-24	90-300V (derate	3 Centurion II Rectifiers (+24 V), Controller, 16 DC Circuit Breaker Distribution, 2 x 100A Battery Breakers		19.84
C2RS-48	@ 115 input), C2RS-48 45-65 Hz.	3 Centurion II Rectifiers (-48 V), Controller, 16 DC Circuit Breaker Distribution, 2 x 100A Battery Breakers	19/23", 2 RU	Lbs.

Gerneral Specifications

Input: Nominal: 230V Voltage Range: 90 - 300V (derate @ 115 input) Frequency Range: 45 - 65 Hz Power Factor: >0.99 Efficiency: >94% (from 30-95% output power) Current Draw @ 230 VAC: 1000W Rectifier: 4.6 Amps 2000W Rectifier: 9.2 Amps Ambient Temperature: Nominal: 25+/-5° C, 5-95% RH (noncondensing) Range: -10° C to +70° C (derate above +50° C) Altitude: <8,202 ft., De-rate maximum ambient temperature by 4° C per 3,280 ft. above sea level

Wiring Option: Battery Cable, 2 AWG, 7' Length (P/N: 435-2007-0)

The Centurion II Power System features Smart Power, see page 3 for more information.





Commander Power System: 48 Volt



Incredible Functionality, Scalability and Web Monitoring in a 5 RU, 1.0 to 14.0 Kw, -48V DC Power System

- 19", 5U rackmount shelf with integrated power distribution
- 90-250 VAC input, Power Factor Corrected
- 7 power bays accept 1000 or 2000 watt, -48V modular rectifiers
- 259 amp, 14,000 watt total max. output capacity, (222 Amp, 2,000 Watt, N+1) @ - 54 VDC
- Output temperature compensated for precise battery charging
- 18 DC circuit breaker distribution capacity, with tripped breaker alarm, 63 amp max. circuit breaker rating
- Master battery disconnect breakers for four battery strings, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions and dry contacts for user programmable alarms
- General Purpose Digital Inputs for user configured external alarms
- Low voltage disconnect built-in
- Easily configures to meet site power requirements

Complete system design and assembly your application parameters: rectifier configuration, distribution circuit breaker installation, and configuration of alarms and monitors. Installation in a relay rack with batteries and wiring also available.

Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Output Amps Cont.	Watts	Weight
C2R-1000	18/12	-54.4 VDC, adjustable 48 - 58 VDC	18A*	1000	3.5 Lbs.
C2RX-2048	37/21	-54.4 VDC, adjustable 48 - 58 VDC	37A*	2000	3.5 Lbs.

* @ 120 VAC: Derate 2 kW rectifiers by 41%; 1kW rectifiers by 33%

Shelf	Input Voltage Range	Configuration	Size	Weight
CMDRS-48	90-300V (derate @ 115 input), 45-65 Hz.	7 Commander Rectifiers (-48 V), Controller, 18 DC Circuit Breaker Distribution, 4 x 100A Battery Breakers	19/23″, 5 RU	35.15 Lbs.

Gerneral Specifications

DC Distribution

Load: 18 breaker positon capacity, available amperages (specify) 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50 and 63A tripped breaker alarm **Battery:** 4 x 100A battery circuit breakers. Breaker Fail Detection: Electronic fail detection on both load and battery breakers

Low Voltage Battery Disconnect: 300A battery LVD installed standard, with disconnect alarm

Powering the Network

The Commander Power System features Smart Power, see page 3 for more information.



Newport Beach, CA USA

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Power Modules: 12, 24 & 48 Volt

These versatile Rectifier Modules function as either power supplies or battery chargers for 12, 24 or 48 volt systems; positive, negative or floating ground. They may be employed singly or in combination, enabling the installer to scale the system anywhere from 500 to 10,000 watts per rack. Units may be paralleled for N+1 redundancy and alarm contacts allow local

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or remote monitoring. An optional DC quick connect wiring kit allows easy replacement of modules without system shutdown.

Power Modules may be used separately as a power source, or they may be integrated with the Power Function Manager, model PFM-500.

Features

- 12, 24 or 48 volts output; pos., neg. or floating ground
- Built-in oring diode for parallel or N + 1 configuration
- Power supply or battery charger operation (DC UPS system)
- Optional battery charging circuit: three-step charging, gel/lead-acid switch, and temperature compensation
- Form C alarm contacts



Power Modules integrated with Power Function Manager in complete system, see page 19 for more information

			Output		Dimensions	Wei	ght	
Model	Input Amps @ Full Load 115/230V	VDC V Out	VDC V2	Amps Cont.+	Watts	(H x W x D) Inches	Lbs	Kg.
PM-12-40	8.5/4.3	13.6	14.3	40	560		12.2	5.5
PM-12-80	16/8	13.6	_	80	1000	2 5 17 00 5	15.2	6.9
PM-24-20	8.5/4.3	27.2	27.9	20	560	3.5 x 17 x 20.5	12.2	5.5
PM-24-40	16/8	27.2	—	40	1000	19" mounting	15.2	6.9
PM-48-10	8.5/4.3	54.4	55.1	10	560	brackets	12.2	5.5
PM-48-20	16/8	54.4	_	20	1000	provided	14.0	6.4
PM-48-50	*/22	54.4	_	50	2200		34	15
	,							

VDC (V out) Measured at output terminal with oring diode

* 230 VAC input only

VDC (V2) Measured at direct output terminal

+ For parallel configuration/load sharing derate output 10%

Specifications

Input:

- 85 135/170-270 VAC (selectable), 47 63 Hz., 560 watt models
- 90 265 VAC, 1000 watt models
- 207 253 VAC, 2200 watt model

Power Factor: 560W & 2200W models: 0.7 1000W models: 0.98

Regulation: ± 1% at direct output (V2); ± 2% through "oring" diode (V out)



Ripple: 1% (Typical)

Efficiency: 80-85% @ full load Front panel Output Voltage Adjustment Pot Range: ±10% Altitude Range: Full output to 5,000 feet. Derate output current 4% per 1,000 feet to 10,000 feet max.

Temperature Rating

560 watt models: -40° C to +60° C; Derate linearly from 100% load @ 50° C to 75% @ 60° C **1000 watt models:** -20° C to + 70° C; Derate linearly from 100% load @ 50° C to 50% @ 70° C **2200 watt model:** 0 - 50° C



Integrated Power Systems: 12, 24 & 48 Volt

The Integrated Power System (IPS) is a unique multifunction power supply which incorporates builtin battery backup and numerous power accessories within a single 2RU (3.5") chassis, thus eliminating time-consuming system integration, component sourcing and installation, while



saving precious rack space--ideal for any low-to-medium power application requiring AC fault tolerant operation.

A precision regulated power supply/charger, back-up battery, low voltage battery disconnect, output metering, LED status and Form C alarm contacts are all pre-wired and calibrated within the unit for plug-and-play operation. Plug-in terminals are provided for easy wiring of an additional parallel rectifier input, or external batteries for increased back-up capacity.

The batteries are always in-line with the load, thus there is no interruption from relays or transfer switches in the event of AC loss. Batteries are recharged when AC is restored. A manual battery disconnect switch allows internal or external battery service or replacement while the system is running. Models available for -48, +24 and +12 volt applications.

Features

- Precision regulated power supply simultaneously maintains batteries at peak charge and supplies system load
- Built-in batteries instantly power load during AC failure

 no switch-over delay. 3 5 year average life. Terminals
 provided for additional external batteries for increased
 back-up capacity
- Terminals provided for easy addition of parallel rectifier. (48V and 24V models only)
- Automatic low voltage and manual battery disconnect

- Numerous front panel monitors L.E.D. status indicators and digital ammeter/voltmeter
- Form C summary failure alarm contacts; loss of internal rectifier output, loss of external rectifier output, LVBD contactor open. AC input failure alarm contacts optional
- Numerous protection features--AC input breaker, internal battery breaker, auto thermal shutdown/recovery, current-limiting, short-circuit and over-voltage protection.
- 19" or 23" rack mount, flush or 6" forward mounting

	Input Amps @	-	C	Dutput ———		Internal	
Models	Full Load 115 / 230	VDC	Adjustment Range	Amps Continuous	Supplemental Input Ports	Battery Capacity	Ground Reference
IPS 48-11	11 / 5.5	54.4	40 - 60 VDC	11	40 Amps	5 A-H	Positive
IPS 24-22	11 / 5.5	27.2	20 - 30 VDC	22	40 Amps	10 A-H	Negative
IPS 12-40	11 / 5.5	13.6	10 - 15 VDC	40	N/A	20 A-H	Negative

Specifications

AC Input

Input Range (switch selectable): 115V = 92-130 VAC; 230V = 184-260 VAC **Frequency:** 47-63 Hz

DC Output

Max. Load w/ External Rectifier and Battery Inputs: 40 A Regulation: Line: ± 1 %, Load: ± 2 % Ripple: ± 1 %

Environmental

Temperature Rating: -10° to + 60° C; Derate linearly from 100% load @ 50° C to 75% @ 60° C



Internal Batteries

Type: 12 Volt, 5 A-H Sealed Lead-Acid, Maintenance-Free **Approvals:** UL Recognized, DOT and IATA, approved for shipment by air

Internal Battery Constant Current Performance (Amps) to 1.75 VPC								
MODEL	5 MIN.	15 MIN.	30 MIN.	1 HR.	2 HRS.			
IPS 48-11	15.0	8.0	5.0	3.0	2.0			
IPS 24-22	30.0	16.0	10.0	6.0	4.0			
IPS 12-40	40.0	32.0	20.0	12.0	8.0			

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Site Power System: 12, 24 & 48 Volt

The Site Power System (SPS) series provides a complete DC power solution that integrates quickly with batteries, loads, and monitors. Available in 12, 24 and -48 volt, 300 watt configurations, the compact assembly contains: power supply with temperature compensated, automatic boost/float battery charge cycle, low voltage disconnect, and programmable alarm contacts. High operating temperature rating with convection cooling make the unit ideal for remote site shelters, railroad wayside bungalows, and pole mount enclosure applications, as well as private network base stations and microwave sites.



Features

- Well regulated noise free output no interference with sensitive electronic loads
- Separate Battery Charger output with remote temperature compensation sensor (provided)
- Automatic Boost Voltage output after AC power failure quickly recovers battery
- Low Voltage Disconnect protects batteries from over discharge
- Output current indicator LEDs
- Wide temperature operating range (-40° to +70° C), convection cooled, meets AREMA standards
- Alarm contacts interface with remote monitoring systems

Medela	Veltage Demas	Voltage Adjustment	Output	Dimensions (Inches)			Weight
Models	Voltage Range	Range	Amps	н	w	D	(Lbs.)
SPS 12-20	13.6V	11 - 15V	20	1.75	17	11.5	8
SPS 24-10	27.2V	22 - 30V	10	1.75	17	11.5	8
SPS 48-6	54V	44 - 60V	6	1.75	17	11.5	8

Specifications

AC Input Nominal: 110/220V, 50/60Hz Voltage Range: 100-275V AC (full power output), 85-100V AC (reduced power output) Frequency Range: 45-66Hz Power Factor/Efficiency: >0.99 (full load)/87% Input Fuses: Fuses in phase & neutral Maximum Input Current: 300W Models: 4A ,

Isolation Input to Output: 4,200V DC Input to Chassis: 3,500V DC (VDR to chassis removed.) Output to Chassis: 2,100V DC

Environmental

Cooling: Convection cooled Range: -40° to +70°C operating range; -10° to +60° @ 100% load rating. derate to 20% load below -10° C and above +60° C

Protection

Input Voltage: Automatic shutdown, restarts automatically when correct voltage restored. Current Limit: Adjustable to 50-100% of maximum rated current Over Temp: Automatic current turndown, backup shutdown protection Polarity Reversal: Output fuse with crowbar diode Over Voltage: Adjustable limit





NFPA Compliant Battery Back-Up Power

Public Safety/BDA In-Building Coverage



An integral part of an in-building solution for emergency response radio coverage is the backup power system. NFPA codes relating to the autonomous operation and moniforing of the BDA power is quite stringent. These back up power enclosures were engineered to meet every aspect of NFPA 72 and provide integrators configuration flexibility and rapid delivery directly to site, batteries included.

Features

- NFPA Compliant
 - All Required monitoring alarms
- Batteries included
 - Choose capacity to match system requirements
- NEMA 4X Enclosure
 - Choose wall mount case size A or B
- Prewired internal & external, with waterproof feed thru's for easy on-site connections:
- Customization to meet local AHJ 's requirements

Specifications

Input: 115/230 VAC

Outputs:

DC: 12, 24 and 48V, with 120, 240 and 480 Watt DC UPS **AC:** 110V at 100 watts, 24 hour rating (contact factory for detailed specifications)

Protections: Battery breaker, AC input breaker, NEMA 4X enclosure

NFPA Compliant Alarms (Form C, Dry Contact)

- AC fail
- Battery discharged to 30% of capacity
- Charger fail

Batteries Included: maintenance free, valve regulated, sealed lead acid, 18, 55, and 100 AH capacity

*Preliminary: Specifications subject to change





12-24-48V, 18 - 100AH 26" x 22" x 10" Case A

External wiring:

 AC Input: 16 AWG, UL 3 conductor, SJT jacket , 12', with molded plug

Enclosure: NEMA 4X, IP 65, welded aluminum with IP 65 battery vent and locking door with 4 each 1/2" knock-outs for cable entry on sides and bottom (16 total), IP 65 cable entries. Red powder coat wall mount.

Optional Configurations/Components

- Input/Output wire lengths/terminations/plugs
- Ethernet/SNMP monitoring and data logging (see model SPM-200 for specifications)
- Battery temperature compensation sensor
- Inverter installed AC UPS

Model	Output Voltage	DC UPS Power Watts	Batt Capacity	Enclosure Size
PE-12V-120W-18AH	12 VDC	120	18	А
PE-12V-120W-55AH	12 VDC	120	55	А
PE-12V-120W-100AH	12 VDC	120	100	А
PE-24V-240W-18AH	24 VDC	240	18	А
PE-24V-240W-55AH	24 VDC	240	55	А
PE-24V-240W-100AH	24 VDC	240	100	А
PE-48V-480W-18AH	48 VDC	480	18	А
PE-48V-480W-55AH	48 VDC	480	55	А
PE-48-480W-100AH	48 VDC	480	100	В
PE-110V-100W-100AH/24V	110 VAC	100	100	А





Powering the N

19" x 24" x 20"

Case B

DC UPS for Public Safety DAS

- Combines power supply, battery charger, UPS circuitry and status monitoring in ONE compact DIN rail mount unit
- Alarm outputs comply with NFPA public saftey in-building wireless communications back-up power requirements: AC Fail, Low Battery, & Charger Fail
- Separate outputs for load and battery
- "Load Priority" circuit prevents discharged battery from impacting operation of critical loads when AC power is restored
- 3 step charging for rapid battery recovery, programmable for battery type, with optional temperature compensation sensor
- Low voltage disconnect protects battery from total discharge
- High operating temperature range to 70° C
- Communication MODBUS via RS-485 Interface/RJ-45 (Model 48-10 only)
- CE Approved/Designed to UL 1950

Battery Detection Signal Outputs (form C):

- 1. AC Fail
- 2. Low battery voltage indicating battery discharge by 70% (i.e. only 30% capacity remains)
- 3. Internal charger/power circuit fail

Specifications

Refer to page 11 for DIN-UPS/BDS unit specifications.



BDS-DIN-UPS	Ou	tput	MODBUS	Case
Model	Voltage	Power	INIODB03	Case
12-10	12 VDC	10 Amps	No	А
24-10	24 VDC	10 Amps	No	В
48-10	48 VDC	10 Amps	Yes	С

Case	Dimensions (H x W x D)	Weight
А	4.5" x 2.6" x 5.3"	2 Lbs.
В	4.5" x 3.9" x 5.3"	2 Lbs.
С	4.5" x 5.9" x 5.3"	4 Lbs.

DIN RAIL Mount Batteries

Go To

These DIN Rail mount cases provide a quick and convenient method to integrate batteries into a DC UPS system resulting in a professional integration.

The enclosures feature heavy duty clips for 35mm rail, with additional case top and bottom hanging tabs if extra mounting security or non-DIN Rail mounting is desired. Touch safe screw terminals are located at top of the case for easy connection and wire routing. The convenient fold down door gives quick access to fuses and allows easy battery replacement.

Configuration choices include 12, 24, and 48 volts, in capacity of 1.2 to 14 amp hours.

Model	Voltage	Amp-Hours	Case	Weight
DIN-BATT 12-1.2	12V DC	1.2	А	3.8 Lbs.
DIN-BATT 24-1.2	24V DC	1.2	А	3.8 Lbs.
DIN-BATT 12-12.0	12V DC	12.0	В	6.8 Lbs.
DIN-BATT 24-7.0	24V DC	7.0	В	11.6 Lbs.
DIN-BATT 48-1.2	48V DC	7.0	2 x A	7.2 Lbs.
DIN-BATT 48-7.0	48V DC	7.0	2 x B	23.2 Lbs.



ALE VOM

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DIN-Rail DC UPS



Powers Loads and Charges Back-Up Battery, Ideal for Automation and Wireless System Transmitter Applications

DIN-UPS 12-10

- Combines all system power functions: power supply, battery charger, UPS circuitry and status monitoring in ONE compact DIN rail mount unit
- Separate outputs for load and battery
- "Load priority" circuit ensures power is dedicated first to the load, with remainder then allocated to battery charging, thus preventing a discharged battery from impacting operation of critical loads.
- 3 step charging for rapid battery recovery, programmable for battery type, with optional temperature compensation sensor
- Battery automatically supports load anytime AC fails
- Low voltage disconnect protects battery from total discharge
- Automatic periodic battery health diagnosis
- High operating temperature range to 70° C
- Alarm contacts: AC fail, battery at risk
- Communication MODBUS via RS-45 Interface (DIN-UPS-48-10/24-20/12-35)
- CE Approved/Designed to UL 1950

Specifications

Front Panel LED Indicators:

- Power Source: AC or on back up
- Battery and System Diagnostics (via blink code)

Settings/Selectors:

- Battery Type: Lead Acid, Gel-Cell
- Charge Current Limit: 20 100% of charge rating
- Back-Up Run Time on Batteries:
 - Programmed time limit: 1 60 min. (48-10, 24-20, and 12-35 models only) Or
 - Until LVD disconnect (all models)
- Power Restore Button: re-connects battery without AC present

DIN UPS: 115/230 VAC Input

DIN-UPS	Ou	Output		Case
Model	Voltage	Power	MODBUS	Cuse
12-10*	12 VDC	10 Amps	NA	А
12-35	12 VDC	35 Amps	Yes	С
24-10	24 VDC	10 Amps	NA	В
24-20	24 VDC	20 Amps	Yes	С
48-5	48 VDC	5 Amps	NA	В
48-10	48 VDC	10 Amps	Yes	С

*UL Recognized Component



Newport Beach, CA USA



DIN-UPS 12-35/24-20/48-10 (Case Size C)



(Case Size A)

Signal Outputs (form C):

- (Case Size B) AC Fail - operating on back-up power
- Battery abnormal condition (summary contact): Discharged, damaged, disconnected
- MODBUS Communication (DIN-UPS 48-10/24-20/ 12-35) only)

Temperature: -25 to +70° C. Continuous to 50°, de-rate 2.5% per° C >50° C (50% output @ +70° C)

Cooling: Free air, convection

Protection:

- Low Voltage disconnect at 1.5 volts per cell
- Internal fuse
- Current limiting
- Short circuit and reverse polarity protection
- Thermal overload shut down and recovery

Terminal Blocks: Screw type

Mounting: DIN Rail Bracket (35mm)

Optional:

Battery temp. comp. probe (468-4510-1)

Powering the Network

BDA/DAS version w/ NFPA compliant alarm signals

Case	Dimensions (H x W x D)	Weight
А	4.5" x 2.6" x 5.3"	2 Lbs.
В	4.5" x 3.9" x 5.3"	2 Lbs.
С	4.5" x 5.9" x 5.3"	4 Lbs.

Low Voltage Disconnects/ Power Management

The **ULM-100** is α

1RU assembly that contains numerous DC control and monitoring features that integrate power and distribution components into α highly functional system. Built in features include:



Digital Battery Monitor and Alarm with Low Voltage Disconnect Integrates Rack Mount Rectifiers into a Fully Functional Power System.

low voltage disconnect, digital monitor of voltage and amperage, battery disconnect breaker, and alarm contacts. The digital display monitors bus voltage, battery voltage, system output current, and low voltage connect/disconnect set points. Alarm contacts actuate on low voltage and battery disconnect conditions. Rear panel bus bars provide ample terminal landings for easy integration with rack mount rectifiers, distribution panels and batteries.

Features

- Solid state (FET) low battery voltage disconnect with adjustable set points and manual over ride switch for system maintenance/testing, with adjustable low battery alarm contact alerting to impending system shutdown
- Digital monitor displays system bus voltage, battery voltage, total rectifier amperage, and connect/ disconnect voltage set points, and system ambient temperature
- 100 amp battery disconnect breaker for system protection and easy testing and maintenance
- Form C alarm contacts
- All these functions in a compact 1RU unit, minimizing system rack space
- For use with 12, 24, and -48V systems

Model	Voltage Range	Max. Continuous Current	Low Voltage Battery Disconnect	Size	Weight
ULM-100	8 - 65 VDC	100 Amps DC	100 Amp, Solid State (FET)	19/23", 1 RU	6.25 Lbs.

The Power Function

Manager (PFM-500) is a system integrating component which converts ordinary power supplies (or Power Modules) into a fully integrated and multifunctional power system. The unit provides for control, monitoring, paralleling and protection of 12, 24 or 48 VDC.



positive negative or floating ground power sources. A built-in Low Voltage Disconnect protects batteries in the event of extended AC power loss.

Features

- Low voltage battery disconnect protects batteries in the event of extended AC power loss
- Simplifies wiring with parallel tie point for power modules
- 12, 24 or 48 VDC input/output
- Digital meter displays: system bus voltage, battery voltage, total rectifier amperage, connect/disconnect voltage set points, and system ambient temperature
- Up to five isolated distribution circuit breaker capacity with alarm contacts; easy front panel plug-in installation
- Alarm LED (summary) indicates impending LVD disconnection, Power Module output fail or load circuit breaker trip
- Summary alarm contacts (form C) allow remote monitoring of system status
- Manual battery disconnect switch allows service/ replacement of batteries without system shutdown

Model	Voltage Range	Max. Continuous Current	Low Voltage Battery Disconnect	Size	Weight
PFM-500	8 - 65 VDC	500 Amps DC	500 Amp, Contactor	19/23", 2 RU	20 Lbs.
		Pov	vering the ľ	Vetwo	ork
Newport Be	ach, CA USA		www.poweringthen	etwork.com = 800	-854-3906

Rackmount Inverter - 1RU Series



1RU, 48V Input, 1000 Watts Output

- Pure sine wave AC output powers telecom equipment without performance degradation
- Continuous duty rated full output wattage maintained even during extended power outages
- 1000 Watts easily cascade for N+1 redundancy, providing maximum reliability required by data centers
- Utility bypass, with fast load transfer switch, <8mS
- Load & temperature controlled cooling fan
- Form C alarm contacts for monitoring abnormal conditions

- Fan aging, failure, disconnect and blockage alarm
- User-friendly Status and Diagnostic LCD/LED displays
- Remote Power Management optional via RS-232 port, summary alarm contacts for system fault
- UL listed

Model	DC Input	AC Output
48-1U-1000RM	36 - 60 VDC, 25A	115 VAC, 60 Hz., 1000 Watts





- Pure sine wave AC output powers telecom equipment without performance degradation
- 2000 watts surge, 1700 watts/2 KVA continuous
- Easily cascaded for N+1 redundancy, providing maximum reliability required by data centers
- Low EMI and RFI interference characteristics
- High efficiency: 90% (Full linear load at 120 VAC Output)
- Two NEMA 5-20R AC receptacles provided
- Utility bypass, with fast load transfer switch, <6mS

- Numerous circuit and load protections: over- temp, overload, reverse polarity, high/low battery voltage, AC input breaker
- Load & temperature controlled cooling fan
- Form C alarm contacts for monitoring abnormal conditions
- All diagnostic Operation Controlled by a microprocessor
- User-friendly Status and Diagnostic LED displays
- Remote Power Management optional via remote control relay RS-232 port
- Inverter/UPS mode selector switch
- 19", Rackmount, 1RU

Model	DC Input		-			
WOGEI	Voltage	Amps	Volts	Surge Watts	Cont. Watts	Cont. VA
48-1U-2000RM	42 – 62	50	100 - 120V AC	2000	1700	2 KVA



13 Newport Beach, CA USA

Powering the Network

Rackmount Inverter - 2RU Series

- Pure sine wave AC output powers telecom equipment without performance degradation
- Continuous duty rated full output wattage maintained even during extended power outages
- 3000 Watts easily cascaded for N+1 redundancy, providing maximum reliability required by data centers
- Low EMI and RFI interference characteristics
- High efficiency: 89% (Full linear load at 120 VAC Output)
- Four NEMA 5-15R AC receptacles provided
- Utility bypass, with fast load transfer switch, <6mS
- Numerous circuit and load protections: over-temp, overload, reverse polarity, high/low battery voltage, AC input breaker



2RU, 48V Input, 3000 Watts Output

- Load & temperature controlled cooling fan
- Form C alarm contacts for monitoring abnormal conditions
- All diagnostic Operation Controlled by a microprocessor
- User-friendly Status and Diagnostic LED displays
- Remote Power Management optional via remote control relay RS-232 port
- Inverter/UPS mode selector switch

Model	DC Ir	nput	AC Outp	ut	Dimensions	Weight	
MOGEI	Voltage	Amps	Volts	Watts	(H x W x D)	(Lbs.)	Go To
48-3000RM	42 – 62	75	100 - 120V AC	3000	3.46" x 17.52" x 16.7"	31.5	Webpage

- Pure sine wave AC output powers telecom equipment without performance degradation
- Continuous duty rated full output wattage maintained even during extended power outages
- Utility bypass, with fast load transfer switch, <4mS
- Form C alarm contacts and optional SNMP card for remote monitoring
- User-friendly Status and Diagnostic LCD/LED displays
- Remote Power Management optional via remote control relay RS-232 port

Madal	ModelDC Input				Weight		
Model	Voltage	Amps	Voltage	KVA	Cont. Watts	Surge Watts	(lbs.)
24-1000RM	20 - 30	50	115 VAC, 60 Hz.	1 KVA	800	1000	15.4
48-1000RM	40 - 60	25	115 VAC, 60 Hz.	1 KVA	800	1000	15.4
48-1000IRM ⁺	40 - 60	25	230 VAC, 50 Hz.*	1 KVA	800	1000	15.4
48-2000RM	40 - 60	50	115 VAC, 60 Hz.	2 KVA	1600	2000	17.6
48-2000IRM ⁺	40 - 60	50	230 VAC, 50 Hz.*	2 KVA	1600	2000	17.6
125-1000RM ⁺	100 - 150	10	115 VAC, 60 Hz.	1 KVA	800	1000	15.4
125-2000RM ⁺	100 - 150	20	115 VAC, 60 Hz.	2 KVA	1600	2000	17.6

* Adjustable for 60 Hz.; † Special Order - Contact Factory



Powering the Network

DC BREAKER NEWMAR

2RU, 24, 48 & 125V Input, 1000 & 2000 Watts Output



DC-DC Converters

Communication sites require isolated DC Converters to provide excellent voltage regulation, low noise, and high efficiency voltage conversion. Reliability is vital under continuous duty operation and high ambient temperatures. All these aspects were incorporated in the design of our rackmount DC Converters.



These units accept a wide

input range at 24 or 48 VDC nominal, positive or negative ground, and produce pure 12 or 24 volt power. The solid state circuitry is conservatively designed and semi-conductors are selected and tested to withstand 200% of normal operating power.

Output voltage is maintained within 1% for all line and load conditions and the output is well filtered, allowing use with sensitive transceivers and telecom equipment.

Features

- 48, 24 volt inputs; 12, 24 volt outputs; positive, negative or floating ground
- Input/Output chassis isolation 250 VDC
- 400 watt output
- Rated for continuous duty at full load
- Excellent regulation under all line/load conditions
- Low ripple provides noise free output

- High efficiency 87% typical
- Easily adapts to both 19" and 23" racks, center mount (6" from front)
- Output volt and ammeter
- Output voltage adjustment on front panel
- Low profile occupies two RU (one RU space above and below recommended for cooling)

	Inp	out ——		Output	1	Di	imensio	ns	Wei	ght
Model	Voltage (VDC)	Max. Amps	Voltage (VDC)	Output Adjustment	Amperage (Continuous)	н	w	D	Lbs	Kg.
48-12-30RM	40 - 60	12	13.6	12.6 - 14.5	30	3.5″	19″	8.9″	10	4.6
48-24-15RM	40 - 60	12	27.2	25.2 - 29.0	15	3.5″	19″	8.9″	10	4.6
24-12-30RM*	20 - 30	26	27.2	12.6 - 14.5	30	3.5″	19″	8.9″	10	4.6
24-48-8RM	20 - 30	26	54.4	50.4 - 58.0	8	3.5″	19″	8.9″	10	4.6

* Special order - contact factory for availability

Specifications

Performance

Regulation: 1% line/load

Ripple: +/-1/2% peak-peak max.

Idle Current: 48V: <100 mA, 24V: 300 mA

Efficiency: 85% typical @ 50% load.

Operating Temperature: -20 to 50° C; Derate linearly from 100% @ 50° C to 50% @ 70° C

Isolation: 250 volts input-output-chassis

Mechanical

- Powder coated aluminum front panel, vinyl coated aluminum case
- Mounting brackets provided for 19" or 23" rackmount, center or front
- Easy access terminal blocks on back of unit, with protective cover
- Front panel switch guard provided
- Output voltage adjustment potentiometer recessed in front panel



Protection

- Input and Output circuit breaker
- Current limited/short circuit proof
- High/low input voltage shutdown
 Fail-safe components auard against c
- Fail-safe components guard against output over-voltage condition
- Automatic high temperature power reduction starting at 65° C heat sink temp
- Automatic thermal shut down and recovery @ 80° C heat sink temp. (automatic reset @ 55° C heat sink temp.)
- Reverse polarity protection

Options

- Operation as battery charger and/or parallel redundant operation
- Output Failure Alarm Contacts; Form C

Powering the Network

Modular DC-DC Converter System



Convert 48 to 24 or 24 to 48 volts with this compact, high power density (1RU) DC converter system. Wide range input maintains well regulated (isolated) output even when source voltage goes low. Multiple power bays accept 1500 watt converter modules allowing system scalability, load sharing and N+1 redundancy for high reliability. Built-in remote monitoring by Form C alarm contacts alerts operators to major and minor fault conditions.

Features

- High power density 1RU shelf, saves valuable rack space
- Scalable to 7500 watts output by insertion of multiple 1500 watt DC converter modules, up to 5 per shelf
- N+1 redundancy back-up, converters always on-line in event of failure, providing seamless back up power
- Wide input range accepts variation of input voltage while producing steady output essential for proper equipment operation
- Wide temperature range -40 to 75° C assures performance in remote sites and outdoor cabinets
- High efficiency: 95% conserves energy and minimizes heat generation, reducing ambient cooling requirements
- Remote monitoring provides major and minor failure conditions notifications
- Diagnostic LEDs on each converter provides on-site trouble shooting diagnostics



1500 Watt Converter Module 48V to 24V or 24V to 48V

Specifications

Shelf	Input Voltage	Output Voltage	Amperage	Size	Weight
DRS-248-7500 21.5 - 58.0V DC		24 or 48V DC	290 @ 24V; 145 @ 48V	19″, 1 RU	10.6 Lbs.
DC Converter M	lodule	Input Voltage	Output Voltage	Output Amps Cont	Watts
24-48-DHS		21.5 - 29.0V	54.4 VDC	27A	1500

General Specifications

Ground Reference: Positive/Negative/Floating Efficiency: 95% Connections: Dual stud for two hole lugs Alarm Module: 2 Form C relays, single pole, double throw, 0.5 amps at 60V DC Operating Temperature: -40° to 75° C Protection: Internal fuse Safety: UL 60950, Nebs GR-1089 Shelf Dimensions: 19" W x 1.72" H x 15" D





Circuit Breaker Distribution Panels



Circuit Breaker Distribution Panels



- High density, 2RU Rackmount Panels designed to accommodate virutally any 48, 24 or 12 VDC power distribution requirement
- Accommodates up to 10 or 20 circuits depending on model
- Distributes up to 900 amps (450 amps per bus)
- Unique plug-in circuit breaker design requires only front panel access for quick and easy installation
- Tripped breaker alarm contacts provide remote alarm/indications

- Circuit Breaker ratings: 5, 10, 15, 20, 25, 30, 40, 50, 75 or 100 amp
- UL Listed, CE Marked



PBA Series Circuit Breaker

Models	Nominal	inal _{Bug} Toto		Bus Total Circuit Total Current		Total Current	Di	Weight*
woders	Input/Output	Dus	Capacity	Capacity	н	W	D (w/ Cover)	(Lbs.)
DST-10	12, 24 or 48 VDC	Single	10	450 amps	3.5	19	14.4	9
DST-20A	12, 24 or 48 VDC	Dual	20	900 amps	3.5	19	14.4	12
					× T47. /	1.1. 111		

* Weight with no circuit breakers installed

This 8 position circuit distribution panel provides system integrators a flexible solution for DC power distribution on 12, 24 or 48 volt application. Plug in circuit breakers allow easy front access configuration to load distribution. Front panel indicators provide system status: Power available, and if breaker is tripped/



DC Power Distribution Panel Plug-In Circuit Breakers

Webpage

off position. In addition, remote monitoring is provided via form C contact indicating tripped breaker condition. The panel's compact 2 RU height saves valuable rack space and the barrier terminal blocks on rear panel provide convenient wire terminals landing points, and simplifies cable management.

Features

- 12, 24, or -48 VDC, Positive or Negative Ground operation
- Integrates easily with any power system
- 100 amps Bus 8 plug-in circuit breaker capacity (breakers sold separately)
- Indicator LEDs: Power available, tripped/off circuit breaker
- Form C alarm contacts: tripped breaker, input fail

Models	Nominal Total		Nominal Total Circuit Total Curren		Total Current	Dimen	Weight*
MOGEIS	Input/Output	Capacity	Capacity	н	W	D	(Lbs.)
DST-100/8	12, 24 or 48 VDC	8	100 Amps	3.5	19	11	5





Powering the Network

8 Plug-In

Circuit Breaker Capacity

DST-FB Series Available

Ratings 5, 10, 15, 20, 35 or 30A

Fuse Distribution Panels



These fuse panels are ideal for DC distribution to low power loads in 24 and 48 volt positive and negative ground network applications and provide enhanced system reliability via dual input buses which allow configuration with redundant power sources. Each input bus accommodates 10 or 20 GMT output fuses (depending on model) in ratings up to 15 amps. Form C alarm contacts provide remote monitoring of input power and blown fuse conditions. Front panel LEDs indicates normal operation, fuse failure mode, as well as a user configured external alarm signal. Their low profile 1.75" (1RU) occupies minimal space and can be configured for 19 or 23 inch rack mounting.



GMT Fuse Available Ratings 1, 3, 5, 7.5, 10 and 15 Amps

Features

- GMT Fuse
- Polarity insensitive panels work with positive and negative ground systems -/+ 24 or -/+ 48 VDC
- Form "C" alarm contacts
- 1RU (1.75") in height will configure to 19" or 23" rack mounting

Models	Nominal	Total Fuse	Amps per Bus	Total Current	Dime	ensions (In	ches)	Weight
Models	Input/Output	Capacity	(Dual Bus)	Capacity	н	W	D	(Lbs.)
FDP-1010	+/- 24 or 48 VDC	20	100	200 amps	1.75	17	11.5	8
FDP-2020	+/- 24 or 48 VDC	40	100	200 amps	1.75	17	11.5	8

Specifications

Nominal Input/Output: +/- 24 or +/- 48 VDC

Fuse Capacity

FDP-1010: 10 GMT fuses per bus (20 total) FDP-2020: 20 GMT fuses per bus (40 total)

Total Current Capacity

FDP-1010: 200 amps (dual 100 amp bus) FDP-2020: 200 amps (dual 100 amp bus) Fuse Holder & Fuse Rating:15 amps max.

GMT Fuses: Available amperages: 1, 3, 5, 7.5, 10, and

15. Other ratings available upon request. Note: Fuses sold separately

Operating Temperature: -20° to +60° C (-5° to + 140° F)

Alarms

- Form C alarm contacts for each bus
- External ground input alarm (bay or rack alarms)

Compliances: NEBS 3 certified

Mechanical

- Steel case painted flat black
- Mounting ears provided for 19" and 23" rackmount, flush mount or 6" offset
- 1 RU (1.75"), can be zero clearance mounted directly adjacent to other equipment

Front Panel Details

- LED status indicators:
- Normal Operation
- Fuse Alarm
- External alarm
- Easy accessible fuse blocks
- Spare fuse holder

Rear Panel Details

- Input Terminal Block: Two 1/4" studs on 5/8" centers
- Output and Alarm Terminal Blocks:
- FDP-1010: Barrier Terminal Block; #22 to #10 AWG wire for fork or ring #6 screw
- FDP-2020: Elevator clamp style terminal block; #26 to #12 AWG wire.
- Cable Management Bar Clear Lexan cover protects
 wiring connections



Powering the Network

Circuit Breaker Distribution

with Remote Re-Boot Control



Instantly reboot, start or stop –48V network equipment (contact factory for +12V and +24V modification) in remote locations securely from your web browser or via program control. Eliminate overloads, brown-outs, blown breakers and other power problems before they occur, start devices in sequence automatically.

Ease of remote operation is made possible via numerous web browser control options of up to 8 breaker protected circuits. Remotely control power relays, choose from sequential on, all-off, selective circuit, or last state. In addition, an advanced custom control function is built-in, programmed via a BASIC style language that remotely initializes scripts without user intervention upon defined conditions such as: power-up, or when lock up is sensed via the "Auto-Ping" feature. Auto Ping continually monitors critical network devices, such as telecom equipment, servers and routers. If a device fails to respond after a user selectable number of pings, the power controller will automatically reboot it, or run a user's script with no user intervention. "Locked-up" devices are brought back to life instantly. Long distance service calls are averted.

Convenient monitoring via user-defined graphics and hyperlinks allow you to customize web pages. Programmable web links provide a seamless control panel of multiple systems comprising several distribution reboot units.

Features

- Remote control routers, telecom equipment. Switches any -48VDC device, up to 15 amps. An internal web server gives you manual control from anywhere in the world
- Use scripts to automate control from remote locations via LAN or WAN
- The "Auto-Ping" feature intelligently reboots a machine, router, server, or other Ethernet device automatically
- Windows utility provides e-mail notification of logs and events. Also supports UNIX style SYSLOG
- Front panel system control buttons with LCD display enables manual on-site relay control for ease of set-up

- Eight relays are individually controlled by scripts or web commands over Ethernet. Ethernet connection with static IP allows connection anywhere on your LAN or WAN
- Dual 50 Amp A/B input bus power four 15 Amp outputs for each bus, or wire inputs in parallel for an 8 circuit, single bus
- All inputs and outputs are circuit breaker protected (50A inputs, 15A outputs). Other values available upon special request
- Universal 19" brackets accommodate center, back, or front rack mounting

Model	Input Voltage	Circuit Capacity	Dimensions (H x D x W)	Weight (Lbs.)
DST-8-RB	36 - 75V DC either A or B bus	8	1.75" x 11" x 17"	9.3

Electrical

Input: 11.5 - 75V DC, either A or B bus Frequency: 20% ripple permissible A/B Input Breakers: 50A thermal, manual reset Power Dissipation: 10.3W Max (relays on) <3 W idle Ethernet Interface: 10/100 autosensing, Static IP, TCP port selectable, 8 pin RJ-45 w/ internal FCC filtering Input Terminal Rating: 100A Relay Contact Rating: 20A DC Password Transmission: Secure authentication Encrypted, base 64 Movable HTTP port for security Output Circuit Breakers: 15A standard or specify 7 or 10A thermal, manual reset

Power Fail Hold-Over: 600ms minimum (all relays on) Switches & Controls: Reset to factory default switch Link, ACT (Relays On), Pwr LEDs

Power-Up Settings: Last relay settings, all relays off, sequential on or run PLC script

Software Controls (via web or script): Individual outlets on/ off, all on

Enviromental

Operating Temperature: -40° to 170° F, -34° to 77° C



Site Power Monitor

Web-enable and integrate intelligence to any site's AC and DC power system for 24/7 monitoring, alarm condition notification, and data logging of vital electrical functions. All programmable, accessible, and managed via the Internet: TCP/IP or SNMP. View current conditions and log 30 day history of DC and AC power status at remote sites before dispatching personnel.

The Site Power Monitor is designed specifically for monitoring power supplies, rectifiers, batteries, converters, inverters, UPS, distribution panels, and AC power at communication sites, base stations, outdoor enclosures, and command vehicles via Ethernet or Wireless connection. The palm sized unit can be rack, DIN-rail, or wall mounted and is easily adapted to virtually any make of power system via nine sensor input ports which capture and stream critical data via the internet for analysis and logging of site history. Web page based programs are easily user configured for site parameters with up to 50 desired alarm conditions



settings and multiple automatic notification options by e-mail, mobile phone and smart devices.

Sites without internet access can use the monitor solely as a data logger that captures and retains 30 days' data, ready for download to lap top for site history file and analysis of component performance and failure conditions.

Sensor Data

- DC Bus/Battery Voltage
- DC System Amperage/Battery Charge-Discharge Current
- AC Voltage
- Ambient Temperature
- Dry Contacts/Alarms

Firmware

- Programmable Alarms
- Data Logging
- Ethernet Camera

Reporting Via

- Internet Software Included
- E-Mail
- Mobile Phone

Optional Accessories

Rackmount Panel (model SPM-RM)

Monitor Inputs: 9 Total

DC: 3 Ports:

- 2 each: 0-40 VDC
- 1 each: 36-60 VDC
- Accuracy: +/- 2%

AC: 2 Ports:

- 120/240 (90-264) utility power (L-N or L-L)
- 120/240 inverter output (floating)
- Accuracy: +/-2%

DC Current: 1 Port

- +/- 100mv, 100 amp via differential using provided shunt
- Read battery charge/discharge current, or load current
- Accuracy: +/-3%

Dry Contact Switch Sensors: 3 Ports

 Possible uses: door open, water leak detection, smoke alarm, component fail, breaker trip, high temperature

Ambient Temperature Sensor

- Located outside case of unit
- Range: -40 to +60° C, -40° to +140° F
- Accuracy: +/-0.5° C

Model	Input	Dimensions (H x D x W)	Weight (Lbs.)
SPM-200	9 - 60 VDC, neg./pos. ground, 250 mA max.	3.27" x 4.66" x 2.18"	1



Newport Beach, CA USA

Powering the Network



SPM-200 Installed into SPM-RM Rackmount Bracket



Battery Disconnect Panels



- Provides over-current protection in high current battery wiring applications
- Provides a convenient means of disconnecting batteries from power plant during servicing
- High current single pole breaker is mounted into 2RU rackmount panel
- Auxiliary contacts (form C) provide tripped breaker

BDP-1

signal to power plant monitor

- 10,000 amp interrupt current rating (AIC)
- 19" rackmount ears provided (23" ears available, contact factory)
- Voltage Rating: 12, 24 or 48 VDC, positive or negative gound

Model	Battery Breakers	Available Amperage
BDP-1	1	50, 75, 100
BDP-2	2	50, 75, 100



BDP - High Power

- Form C alarm contacts breaker off or tripped
- Bus bar terminations, 1/4-20 tapped holes and hole center to center spacing for 2 hole lugs
- 25,000 amp interrupt current rating (AIC)
- 2RU chassis, adapts for 19" and 23" racks

Model	Battery Breakers	Available Amperage
BDP-125	1	125
BDP-150	1	150
BDP-175	1	175
BDP-200	1	200
BDP-225	1	225
BDP-250	1	250
BDP-275	1	275
BPD-300	1	300
BDP-350	1	350
BDP-400	1	400



- Voltage Rating: 12, 24 or 48 VDC, positive or negative ground systems
- UL and CSA listed

owering

Special order, contact factory for availability



www.poweringthenetwork.com = 800-854-3906

Jet

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Accessories



Battery Trays and Equipment Shelves

Model	Tray Area	Weight Capacity	Colors	Ship Weight
T 19" x 19"	17.25" x 19.04"	350 lbs	Black	12 lbs
T 19" x 21"	17.25" x 22.3"	400 lbs	Black or Gray	17 lbs

23" tray available in various depths - contact factory for more information

Model	Shelf Area	Weight Capacity	Colors	Ship Weight
S 19" x 16" Adjustable	17.56" x 16"	200 lbs	Black or Gray	10 lbs
S 19" x 20" Adjustable	17.56" x 20"	200 lbs	Black or Gray	ll lbs
S 19" x 16" Ventilated	17.5" x 14.87"	150 lbs	Black or Gray	10 lbs



Battery Tray



Bus Bars

BBA-800

 800 amp rated nickel-plated copper bus bar for use as heavy duty DC positive or negative connection point in rack installations

 Multiple attachment holes in two sizes provided for single and dual hole lugs: 18 ea. @ .312" x .500"; 6 ea. @ .437" round; 4 ea. @ .281" round

GB-19

- Copper bus bar for (unplated), 100 amp rating
- 14 ea. 1/4" landing points
- Installer must supply insulating stand-offs
- Tie bar provided for connecting to adjacent racks

Model	Rating	Dimensions (H x W x D)	Weight
BBA-800	800 Amps	19.5" x 2" x 0.25"	4 Lbs.
GB-19	100 Amps	19.3" x 0.75" x 0.15"	l Lbs.

Quick Connects

Designed specifically for use with Newmar's PM Series Power Modules and Power Function Manager in stacked rack configuration.

Models	Description	AWG	Weight
QCK-3	for up to 3 Power Modules, 70A rating	6	3 Lbs.
QCK-3A*	for up to 3 Power Modules, 80A rating	4	3 Lbs.
QCK-6	for up to 6 Power Modules, 70A rating	6	4 Lbs.
QCK-6A*	for up to 6 Power Modules, 80A rating	4	4 Lbs.
CCK-4**	for up to 4 Power Modules (2200 Watt)	4	6 Lbs.
* DM 10.00	$\alpha = \frac{1}{2} $	una OOV	

* PM-12-80 - only use QCK-3A or QCK-6A; ** PM-48-50 - only use CCK

Rack Covers

Clear plastic panels attach to rear of racks to protect service personnel by preventing accidental contact with "live" terminals, etc., from top, sides and rear.

Model	Rack Height (1RU = 1.75")	Rack Width	Weight
RRC-3-19	3 RU	19″	4 Lbs.
RRC-7-19	7 RU	19″	5 Lbs.
RRC-3-23	3 RU	23″	5 Lbs.
RRC-7-23	7 RU	23″	6 Lbs.



Newport Beach, CA USA



BBA-800

GB-19





Jetv



Powering The Network



www.poweringthenetwork.com



P.O. Box 1306 Newport Beach, CA 92663 15272 Newsboy Cir., Huntington Beach, CA 92649 Phone: 714-751-0488 • Fax: 714-957-1621 E-Mail: salesPTN@newmarpower.com Distributed By: