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Data Sheet

PG1500-UPS-ES



1200 Watt Military Tactical UPS with 10+ Minutes of Battery Backup

Full Operation in Blowing Rain / Dust (MIL-STD-810 506.5 P1 CERTIFIED)

Transit Case mounted for ease of Deployment

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SPECIFICATION	VALUE	UNITS
AC Output		
Rated Voltage	120 Pure Sine Wave ($\pm 5\%$)	Volts
Frequency	60 ($\pm 0.25\%$)	Hertz
Rated Max. Current	10	Amps
Maximum Rated Power	1500VA (0.8PF), 1200W (w/resistive load) Note – 2 units can be used together in one transit case for a 3000VA or 2400W solution.	
Phase	Single	
Total Harmonic Distortion	<5 (w/resistive load)	%
Run Time on Battery	>10 (at 25°C, 80% Load, zero at or below 0C)	Minutes
Transfer Time to Battery	Instant, On-Line conversion, Internal Ac/Dc converter provides full power down to 85Vac input, below 85Vac input, internal batteries support the load. On-Line battery support enables high in-rush loads that internal Ac/Dc power supply cannot support.	
AC Input		
Voltage Range	90 – 264 (phase to phase or phase to neutral)	Volts AC
Nominal Voltage	115/230	Volts AC
Frequency Range	47 – 63, 100-264Vac, 393-407 115Vac	Hertz
Nominal Current	14 @ 115V	Amps AC
Inrush Current (typical)	50	Amps AC
Power Factor (typical)	>0.92 @ 230VAC (full load)	
Leakage Current	<3 @ 230VAC	mAmps AC
Efficiency (typical)	>80 @ 120VAC (Input to Output)	%
Conversion	Double Online	
Battery		
Rating	48	Vdc
Type	Lithium Iron Phosphate	
Capacity	5.7	Ah
Hot-Swappable	Yes (when on AC Input)	
Replacement Time	Less than one minute	
Recharge Time	5 Hours to 95% after full discharge	
BXM Input		
Voltage Range	41 – 56 (Minimum Input Voltage Turn-ON ≥ 42 VDC)	Vdc
Nominal Voltage	48	Vdc
Nominal Current	60	Adc
Inrush Current (typical)	120@48V	Adc
Efficiency (typical)	>84	%
Conversion	Single	

SPECIFICATION	VALUE	UNITS
Front Panel Indicators		
Battery Status	Green=Charged, Yellow=Charging, Red=Discharging	
Switch LED	Green=Unit On	
Front Panel Control		
On/Off Switch	When on, enables UPS output	
Alarm Disable	Enable/disable the audible alarm sounder	
SNMP v1		
	AC Input present, BXM Input present, Battery Status (charged, charging, discharging), AC Output Active, Over Temperature	
Rear Connectors		
AC Input	MS3470L14-4P	J1
AC Output	MS3470L14-4S	J2
AC Load Share*	Type MS3102E16-10S	J3
Load Share Interface*	Female Sub-D 9 Pin	J4, J5
	* Allows units to be stacked for increase in power handling capability, provides synchronization between units (not used in single UPS installation)	
Ethernet	MRJR-5780-01 (Sealed RJ-45 for SNMP communications)	J6
BXM Input	MS3102E20-23P, Pin A = +Vin, Pin B = -Vin (only used when PG-BXM is present for additional battery time)	J7
Safety Ground Stud	¼ -20 Stud (Rear Panel)	
Protection		
Over Load	Yes	
Output Short Circuit	Yes	
Over Temperature	Yes	
AC Input Protection	Yes	
Isolation		
AC Input to AC Output	Yes, Double	
BXM Input to AC Output	Yes, Double	

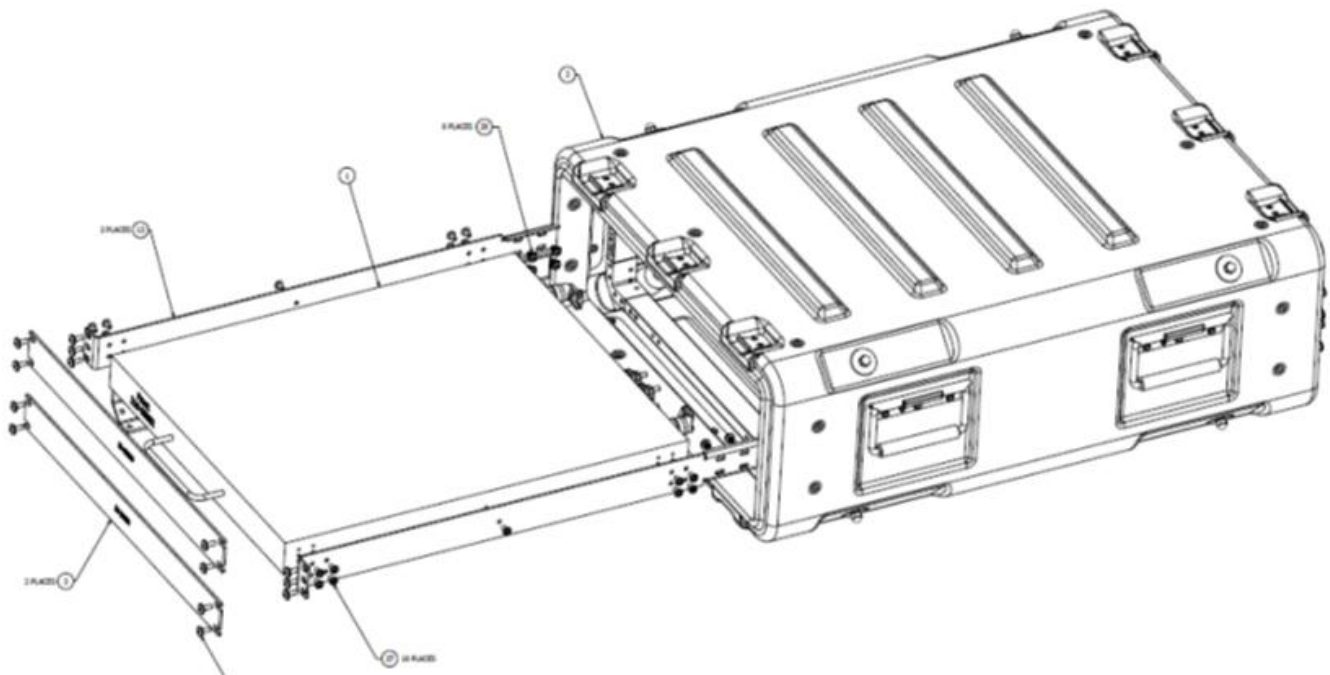
SPECIFICATION	VALUE	UNITS
Environmental		
Temperature Range (Operating)	-32 to +50 MIL-STD-810G Method 501.5, Procedure II MIL-STD-810G Method 502.5, Procedure II	°C
Temperature Range (Operating)	-40 to +60 MIL-STD-810G Method 501.5, Procedure I MIL-STD-810G Method 502.5, Procedure I	°C
Humidity (Operating)	MIL-STD-810G Method 507.5	
Salt Fog (Operating)	MIL-STD-810G Method 509.5	
Sand and Dust (Operating)	MIL-STD-810G Method 510.5, Procedures I & II	
Rain (Operating)	MIL-STD-810G Method 506.5, Procedure I	
Vibration	MIL-STD-810G Method 514.6, Procedure 2 LOOSE CARGO CAT 5 HELICOPTER CAT 9 WATERCRAFT CAT 10 RAILWAY CAT 11	
Solar Radiation (Operating)	MIL-STD-810G w/Change 1 method 505.6, Procedure I, Cycle A1	
EMI		
MIL-STD-461F	CE102, RE102*	
	* Designed to meet, lab testing required for formal certification	
Physical Properties		
Dimensions (Transit Case)	Transit case contains a rack measuring 3U or 5.25" high with a 20" rack depth. It will have a 2" and 5" lid with Edge Casters.	
Mounting (UPS)	1U 19 Inch Rack (adjustable mounting depth)	
Weight (Case + UPS)	60	lbs.
Operation	End bells removed from transit case during normal operation.	
Transit Case	Hardigg / MR1907-2/5 3RU shock-mounted / Black 24" rack depth, 2" deep removable front lid, 5" deep removable rear lid	



PG1500-UPS-ES
Front View



PG1500-UPS-ES
Rear View



PG1500-UPS-ES
Mechanical Drawing with Transit Case