

Document Number: 130211JL-1	Originator: Jon Landau	Date: April 23, 2019
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Data Sheet
PG1500-UPS-DC28-3P



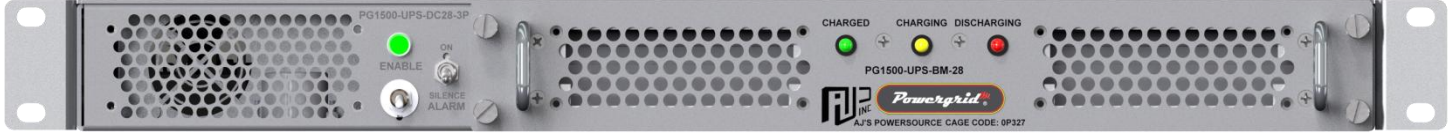
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Creation Date: 07 May 2012	Reference ECO:	Document Number Rev Level:
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SPECIFICATION	VALUE	UNITS
	<b>Model: PG1500-UPS-DC28, 1U 1000W UPS Module</b>	
<b>DC Output</b>		
Rated Voltage	28	Vdc
Rated Max. Current	36	Adc
Maximum Rated Power (1U)	1000	Watts
Run Time on Battery	10 - 12 (at 25°C, 80% Load, No backup output if internal batteries are at or below freezing (0°C/32°F))	Minutes
Transfer Time to Battery	Instant, On-Line conversion	
<b>AC Input</b>		
Voltage Range	208, 3 Phase WYE	Volts AC
Frequency Range	47 – 63	Hertz
Nominal Current	~4@208V per phase	Amps AC
Inrush Current (typical)	100 (maximum)	Amps AC
Power Factor (typical)	>0.8	
Leakage Current	<4.0	mAmps AC
Efficiency (typical)	>80 (AC Input to AC Output)	%
Conversion	Double On-Line	
<b>DC Input</b>		
	(from PG-BXM-28)	
Voltage Range	22 - 32V	Volts DC
Nominal Voltage	28V	Volts DC
Nominal Current	34A	Amps DC
Efficiency (typical)	≥84 @ 30Vdc / ≥82 @ 22Vdc	%
Conversion	Single	
<b>Battery</b>		
Rating	48	Vdc
Type	Lithium Iron Phosphate	
Replacement Time	Less than one minute	
Recharge Time	5 Hours to 95% after full discharge	
<b>Front Panel Indicators</b>		
Battery Status	Green=Charged, Yellow=Charging, Red=Discharging	
Switch LED	Green=Unit On	
<b>Front Panel Control</b>		
On/Off Switch	When on, enables UPS output	
Audible Alarm Disable	Toggle switch up enables audible alarm, toggle switch down silences audible alarm	

SPECIFICATION	VALUE	UNITS
<b>SNMP v3</b>	AC Input present, Battery Status (charged, charging, discharging), DC Output Active, Over Temperature	
<b>Rear Connectors</b>		
DC Output	1 x MS3102E20-8S, Pin A=+28V, Pin D=Return, Pin C=Sense+, Pin E=Sense-, Pins B&F=No Conn.	J3
DC Input (from PG-BXM-28)	1 x MS3102E22-22P, Pins A,D=+Vin, Pins B,C=Return	J2
AC Input	1 x MS3102E16S-8P, Pin A=Phase A, Pin B=Phase B, Pin C=Phase C, Pin D=Neutral, Pin E= Earth Ground	J1
DC Synchronization	Load Share Sync connectors (cable supplied with unit) Allows two PG1500-UPS-DC28's to be paralleled	J4
Ethernet	RJ-45, standard Ethernet pin out (SNMP v3 communications)	J5
Safety Ground Stud	¼ -20 Stud (Rear Panel)	
<b>Protection</b>		
Over Load	Yes	
Output Short Circuit	Yes	
Over Temperature	Yes	
AC Input Protection	Yes	
DC Input Protection	Yes	
<b>Isolation</b>		
AC Input to DC Output	Yes	
DC Input to DC Output	Yes	
<b>Environmental</b>		
Operating Temperature Range	-20 to +50*	°C
Storage Temperature Range	-40 to +65*	°C
Working Humidity	95 non-condensing*	%
Altitude	10, 000 (Operating) / 40,000 (Non-Operating)*	feet
Fungus	MIL-STD-810G, method 508*	
Sand and Dust	MIL-STD-810G* (w/Optional Filters)	
Vibration	MIL-STD-810G*	
Functional Shock	MIL-STD-810G*	
Color/Finish	Gray Textured Finish	
	<b>* Designed to meet, lab testing required.</b>	



**PG1500-UPS-DC28-3P**  
**Front View**



**PG1500-UPS-DC28-3P**  
**Rear View**

Dimensions: (24.00), (22.00), (23.00), (17.10), 19.00 RACK MOUNT, (1.729)

Callouts: RJ45, MS3102E20-8S, MS3102E16-8P, MS3102A22-22P

NOTES:  
 1. ASSEMBLE PER BOM, WIRING TABLE, AND DETAILS ON FOLLOWING SHEETS.  
 2. DO NOT INSTALL BATTERY MODULE UNTIL POWER SUPPLY HAS BEEN TESTED.  
 3. ALL WIRING PER IPC-A-620.  
 4. ROUTE AC & DC WIRING SEPERATELY WHERE POSSIBLE. IF AC WIRING IS AGAINST CHASSIS IT MUST BE INSIDE HEAT SHRINK

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE +/- 0°30' 2 PL +/- .03 3 PL +/- .010 INTERPRET DIM AND TOL PER ASME Y14.5M	CONTRACT NO.	THE FOLLOWING ECO'S HAVE BEEN ATTACHED TO THIS PRINT	
	DRAWN BY	DATE	
CHECKED		<b>AJ's Power Source, Inc.</b> ...power engineering the future <small>6931 Land O Lakes Blvd          Land O Lakes, FL 34638          PHONE: (813) 996-2583          WWW.AJPSOURCE.COM</small>	
ENGINEER			
DRAWING APPROVAL		DESCRIPTION	
DESIGN APPROVAL		PG1500-UPS-DC28-3P	
CONFIGURATION MANAGER		TFR	
OTHER APPROVALS		B	
		STAGE CODE	
		OP327	
		DWG. NO.	
		PG1500-UPS-DC28-3P	
		REV	
		-	
		SCALE	
		1:5	
		SHEET	
		1 of 1	

THIRD ANGLE PROJECTION

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NEXT ASSY	USED ON
APPLICATION	

**PG1500-UPS-DC28-3P  
 Mechanical Drawing**