AJPS INC.
6931 Land O Lakes Blvd
Land O Lakes FL 34638
813-996-2583

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Data Sheet

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PG400UPS-AC-DC-BATT-28

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SPECIFICATION	VALUE	UNITS
DC Output		
Rated Voltage	24 (nominal)	Volts DC
Rated Max Current	16.6	Amps
Maximum Rated Power	400 (continuous)	Watts
	For powering network equipment and charging BB-2590 batteries.	
AC Input		
Voltage Range (Universal)	90 – 264 (unit labeled 100 – 240Vac for agency test rating)	Volts AC
Frequency Range	47 - 63	Hertz
Nominal Current	5 @ 120Vac	Amps AC
Inrush Current (typical)	40	Amps AC
Efficiency (typical)	≥80	%
Power Factor (typical)	>0.95	
Leakage Current	<3 @ 120VAC	mAmps AC
DC Input (from vehicle)		
Voltage Range	10-36 (per MIL-STD-1275)	Volts DC
Nominal Voltage	24	Volts DC
Nominal Current	20	Amps DC
Efficiency (typical)	≥80	%
DC Input (from battery)		
Nominal Voltage	28.8 (Two x 14.4V/section)	Volts DC
Maximum voltage	33.6 (Two x 16.8V/section)	Volts DC
Current (Max continuous)	10 (per section)	Amps
Efficiency (typical)	≥80	%
Isolation		
AC Input to DC Output	Yes	
DC Input to DC Output (vehicle)	Yes	
DC Input to DC Output (battery)	No	
Protection		
Overload	Yes	
Output Short Circuit	Yes	
Over Temperature	Yes	
AC Input Protection	Yes	
Lightning Protection	Yes	

SPECIFICATION	VALUE	UNITS
SNMP v3	AC or DC Input present, Battery Status (charging, discharging, charged), AC Output Active, Over Temperature	
Front Panel Indicators		
Power LED	Green=Unit On	
AC in	Green=Unit On	
DC in	Green=Unit On	
Battery	Green=Unit On	
Front Panel Control		
On/Off Switch	When On, enables UPS output. When Off, no output is present on any connectors.	
Connectors		
DC Output (Front)	8 x LEMO EGG.1B.304.CLL	J4
Battery (In/Out) (Rear)	2 x MS3102E14S-5P	J3
AC Input (Front)	03P D-SUB	J1
DC Input (Front)	MS3474W14-4P	J2
Ethernet Port (Rear)	RJ-45	J5
Safety Ground (Rear)	¼ -20 Stud (Rear Panel)	
Environmental		
Operating Temperature Range	-20 to +50*	^{0}C
Storage Temperature Range	-40 to +70*	^{0}C
Operating Humidity	95 non-condensing*	%
Altitude	10, 000 (Operating) / 40,000 (Non-Operating) *	feet
Fungus	No fungus promoting materials used	
Sand and Dust	MIL-STD-810G* (Front panel re-useable filter installed)	
Vibration	MIL-STD-810G, Method 514.6, Category 20, Figure 514.6C-3, Table 514.6C-VI*	
Functional Shock	MIL-STD-810G, Method 516.6, Procedure I, Section 4.6.2.3 and Table 516.6-I, Ground Equipment*	
Other Specifications		
Startup Time	<5	Seconds
Cooling	Rear Panel Intake & Front Exhaust Airflow	
Electronic Emissions	MIL-STD-461 (CE102, CS114/115/116, CS101, RE102, RS103) *	
MTBF	>100,000 (Calculated per MIL-HDBK-217)	Hours
	* **Designed to meet, formal report requires lab testing at additional expense**	

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SPECIFICATION	VALUE	UNITS
Physical Properties		
Dimensions	1.68H x 8.46W x 11.14D	inch
Mounting Hardware	Slide rails in transit case (see mounting holes on drawing)	
Weight	</=12	lbs.
Material	Aluminum	
Color/Finish	Black #F63-B70 / Light Texture	
	Description of Operation	
	The product is a 1U Half-rack power device that will accept either universal AC input (90 – 264Vac, 50/60Hz, 1Ph), vehicle-based DC input (10-36VDC per MIL-STD-1275) or battery input (24-28VDC) and produce 400W of regulated 24VDC output for powering transit case-based portable network equipment and charging BB-2590 batteries. The front panel has a power switch and LEDs provide user information regarding power and battery status.	

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PG400UPS-AC-DC-BATT-28
Front View

PG400UPS-AC-DC-BATT-28
Rear View

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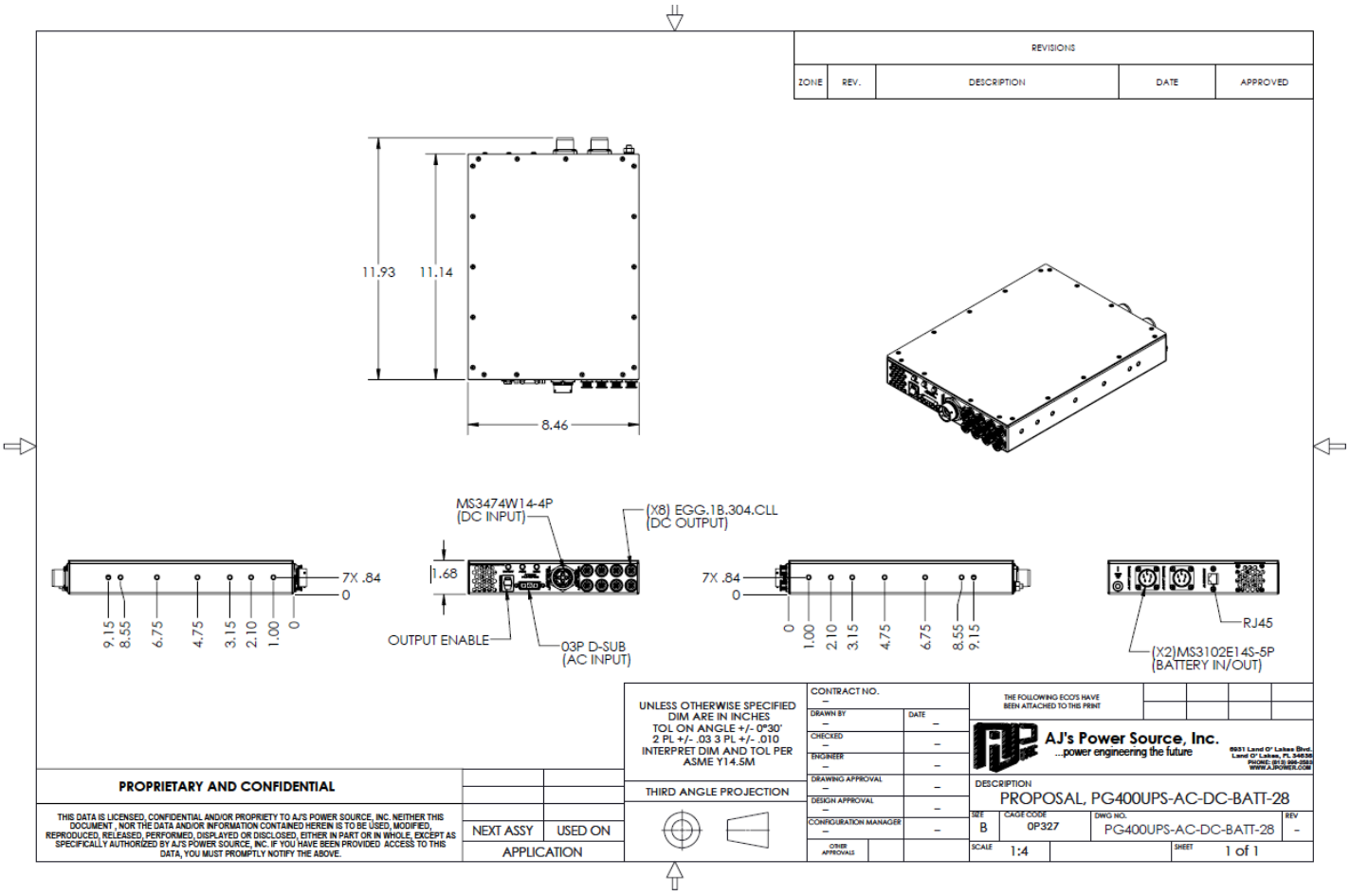

PG400UPS-AC-DC-BATT-28
Mechanical Drawing