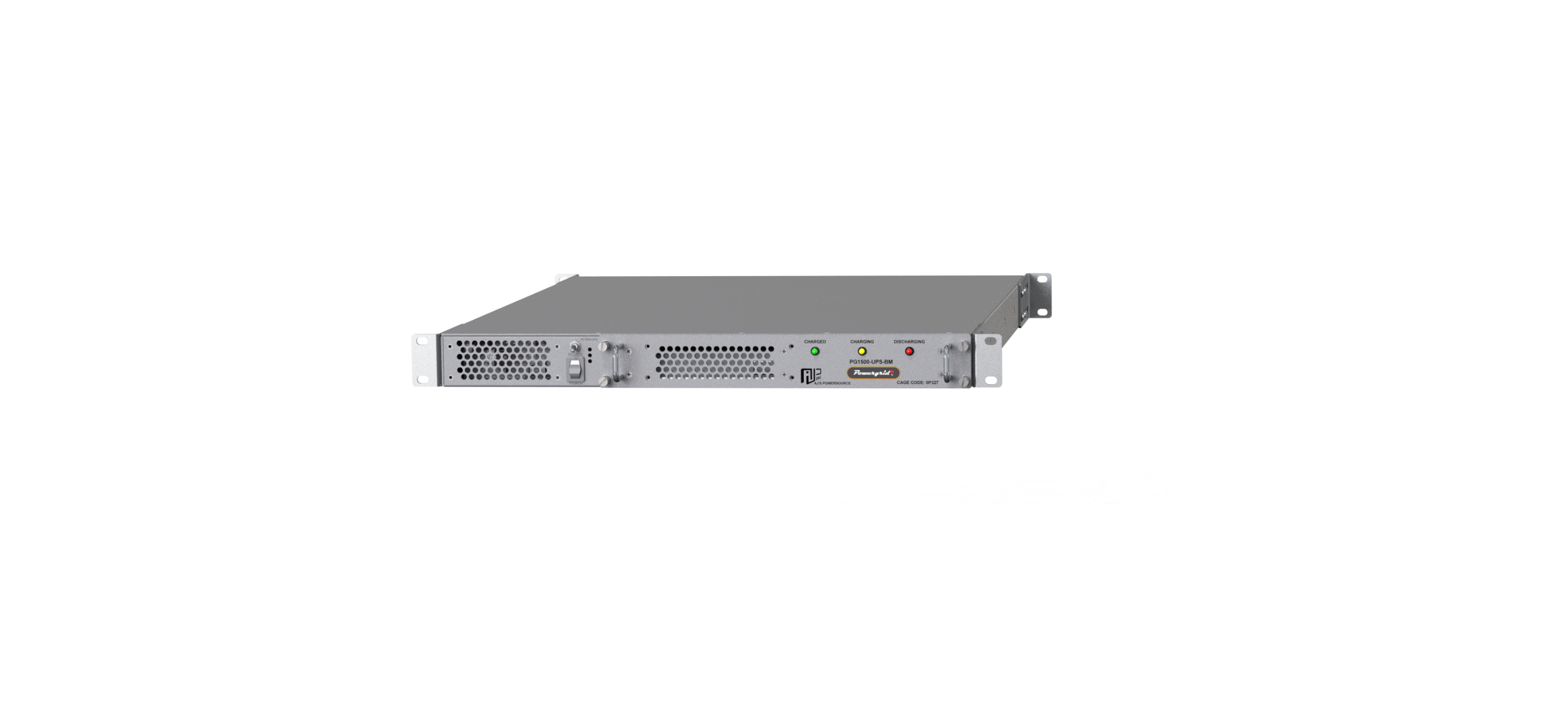
Document Number: 130211JL-1

Originator: Jon Landau

Date: Feb 5, 2020

Data Sheet

PG1500-UPS Rev 1



Originator: / Sign:

Document Number: 130211JL-1

Approved By: / Sign:

Warning: This document may contain technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C. Sec 2751, et seq.) or the Export Administration Act of 1979, as amended (Title 50, U.S.C., app. 2401 et seq.) Violators of these export laws are subject to sever criminal penalties.

Proprietary Data: The data disclosed in this document was originated in whole or in part by AJPS Inc. and is to be utilized only for the specific purposes for which it was supplied. It is not to be disclosed, transmitted or reproduced without the prior written consent of AJPS Inc.

|  |  |  |
| --- | --- | --- |
| **SPECIFICATION** | **VALUE** | **UNITS** |
| **AC Output** |  |  |
| Rated Voltage | 120 Pure Sine Wave (±5%) | Volts |
| Frequency | 60 (±0.25%) | Hertz |
| Rated Max. Current | 10 | Amps |
| Maximum Rated Power | 1500VA (0.8PF), 1200W (w/resistive load) |  |
| Phase | Single |  |
| Total Harmonic Distortion | <5 (w/resistive load) | % |
| Run Time on Battery | >10 (at 25°C, 80% Load, zero at or below 0C)  Note that at a 30W load battery time will be >800 minutes. | 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 | 100 – 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) | >0.98 @ 230VAC (full load) |  |
| Leakage Current | <3 @ 230VAC | mAmps AC |
| Efficiency (typical) | >80 @ 120VAC (Input to Output) | % |
| Conversion | Double |  |
|  |  |  |
| **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 ≥42VDC) | 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 Output | 2 x NEMA 5-15/20R receptacles | J2 |
| AC Input | IEC 320/C20 male receptacle | J1 |
| AC Load Share\* | Type MS3102E16-10S | J3 |
|  | Pin A = Line, Pin B = Ground, Pin C = Neutral |  |
| 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 | RJ-45, standard Ethernet pin out (SNMP communications) | J6 |
| Emergency Cutoff | MS3102E12S3S, Pin A = +V, Pin B = -V  Contact closure  Open = output enabled, Closed via external switch = output disabled | J8 |
| BXM Input | MS3102E20-23P, Pin A = +Vin, Pin B = -Vin (only used when PG-BXM is present) | 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** |  |  |
| Operating Temperature Range | –20 to +50\* | 0C |
| Storage Temperature Range | –40 to +65\* | 0C |
| Working Humidity | 95 non-condensing\* | % |
| Altitude | 10, 000 (Operating) Derate by 25% (900W) at 15,000  / 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\* |  |
|  |  |  |
| **EMI** |  |  |
| MIL-STD-461F | CE102, RE102\* |  |
|  |  |  |
|  | \* **Designed to meet, lab testing required for formal certification** |  |
|  |  |  |
| **Physical Properties** |  |  |
| Dimensions | 1.735H x 17.1W x 23D | inch |
| Mounting | 1U 19 Inch Rack (adjustable mounting depth) |  |
| Weight | 27 | lbs. |
| Material | Aluminum |  |
| Color/Finish | Gray |  |

**Output Enable Switch**

**Battery Module**

**Alarm Disable**



**Air Intake**

**PG1500-UPS**

**Front View**

**AC Output**

**AC Load Share**

**Air Exhaust**



**BXM Input**

**AC Input**

**Ethernet Port**

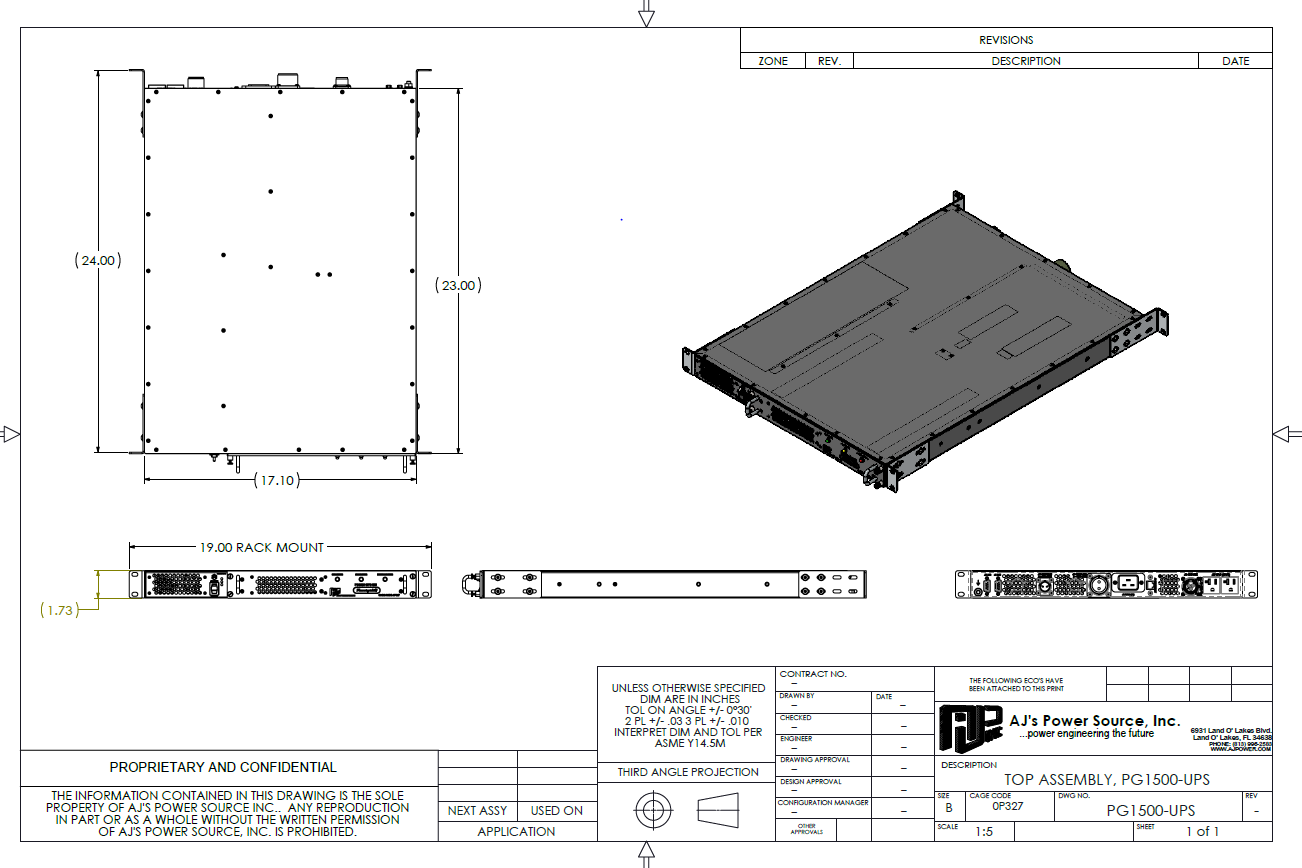
**Emer. Shutdown**

**Load Share Connectors**

**Ground Stud**

**PG1500-UPS**

**Rear View**



**PG1500-UPS**

**Mechanical Drawing**