



■ Features :

- AC input range selected by switch
- Built-in passive PFC function compliance to BS EN/EN61000-3-2
- With AC ON-OFF switch
- 3 poles AC inlet with fuse holder
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Charger type can be selected (Optional)
- Charger for lead-acid batteries
- 2 color LED loading indicator
- Open frame models available (Without safety approval)
- Low cost, High reliability
- 2 years warranty

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



S:Power Supply
A:Voltage detector
B:Current detector

P:With PFC
N:None PFC

□:O.D.M. number

P:Open P.C.B.
C:With case

13:13.8V
27:27.6V
54:55.2V

SPECIFICATION

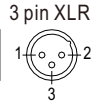
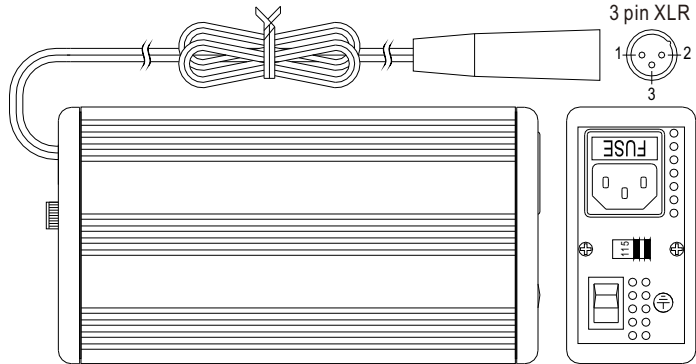
| MODEL | PA/PB-120□-13□ | PA/PB-120□-27□ | PA/PB-120□-54□ | |
|-----------------------|--|---|---|--------------|
| OUTPUT | DC VOLTAGE | 13.8V | 27.6V | 55.2V |
| | RATED CURRENT | 7.2A | 4.3A | 2.2A |
| | CURRENT RANGE | 0 ~ 7.2A | 0 ~ 4.3A | 0 ~ 2.2A |
| | RATED POWER | 99.36W | 118.68W | 121.44W |
| | LED INDICATED | PA series voltage 105% ± 1% ↓ : RED / 105% ± 1% ↑ :GREEN PB series load 46% ± 10% ↓ : GREEN / 46% ± 10% ↑ :RED | | |
| INPUT | VOLTAGE RANGE | 88 ~ 132VAC / 176 ~ 264VAC selected by switch | | 248 ~ 370VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | POWER FACTOR (Typ.) | >0.65 (with PFC series) | | |
| | EFFICIENCY (Typ.) | 73% | 79% | 79% |
| | AC CURRENT (Typ.) | 3A/115VAC | 1.5A/230VAC | |
| | INRUSH CURRENT (Typ.) | COLD START 25A/115VAC | 50A/230VAC | |
| LEAKAGE CURRENT | <1.5mA / 240VAC | | | |
| PROTECTION | OVERLOAD | 90 ~ 110% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed | | |
| | OVER VOLTAGE | 15 ~ 17V | 30 ~ 35V | 60 ~ 66V |
| | OVER TEMPERATURE | RTH2 ≥ 70°C ± 10°C detect on RTH2 thermistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +45°C (Refer to "Derating Curve") | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH | | |
| | TEMP. COEFFICIENT | ±0.05%/°C (0 ~ 45°C) | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL60950-1, LVD BS EN/EN62368-1, EAC TP TC 004 approved | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2.0KVAC O/P-FG:0.5KVAC | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | |
| | EMC EMISSION | Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020 | | |
| OTHERS | MTBF | PA-120: 1628.2K hrs min. Telcordia SR-332 (Bellcore) ; 246.9K hrs min. MIL-HDBK-217F (25°C) | PB-120: 1754.9K hrs min. Telcordia SR-332 (Bellcore) ; 266.7K hrs min. MIL-HDBK-217F (25°C) | |
| | DIMENSION | PCB Type:144*90*33mm External case type:180*96*49mm (L*W*H) | | |
| | PACKING | External case type: 1.1Kg; 16pcs / 17.9Kg / 1.56CUFT(without PFC) 1.24Kg; 16pcs / 20.1Kg / 1.56CUFT(with PFC) PCB Type : 0.36Kg; 36pcs / 14Kg / 0.99CUFT(without PFC) 0.5Kg; 36pcs / 19Kg / 0.99CUFT(with PFC) | | |
| NOTE | <ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. With PFC I/P range: 95-132VAC/190-264VAC. 6. For open P.C.B. WITH 17.8CFM min. Forced air. 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | |

Mechanical Specification

Case No. PS-120A Unit:mm

CASE:
Output cable length=183cm±5cm

| Pin No. | Assignment |
|---------|--------------|
| 1 | DC OUTPUT +V |
| 2,3 | DC OUTPUT -V |



PCB:

AC Input Connector (CN1) : JST B3P-VH or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1 | AC/L | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2 | No Pin | | |
| 3 | AC/N | | |

DC Output Connector (CN3) : JST B4P-VH or equivalent

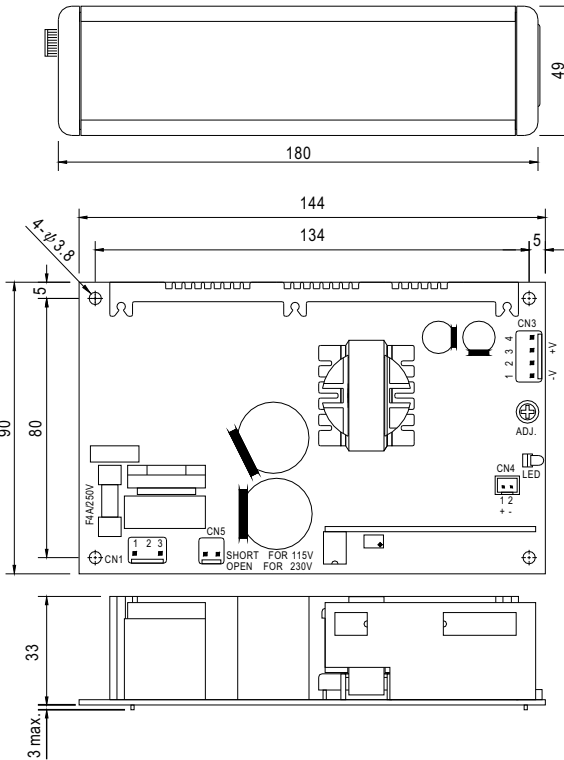
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1,2 | -V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4 | +V | | |

12VDC FAN Output Connector (CN4) : JST B2B-XH or equivalent

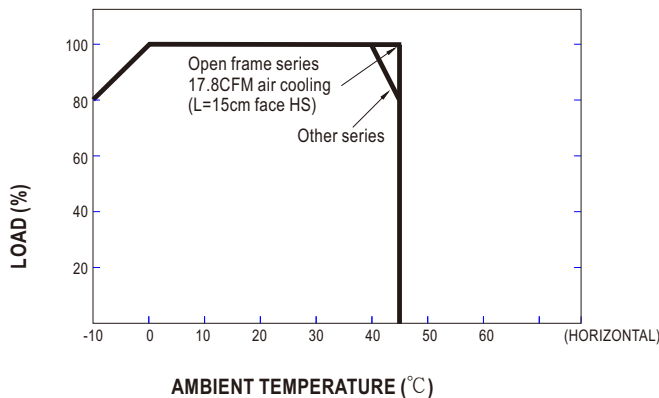
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|---------------------------------|
| 1 | +V | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2 | -V | | |

115/230V selected by switch Connector (CN5) : JST B2P-VH or equivalent

| Switch | Assignment | Mating Housing | Terminal |
|--------|------------|-----------------------|--------------------------------|
| 115V | Short | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 230V | Open | | |



Derating Curve



Charging Curve

