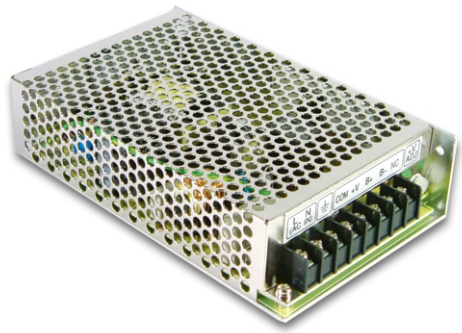
# 55W Dual Output with Battery Charger(UPS Function) ADD-55 series



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Battery low protections
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 2 years warranty

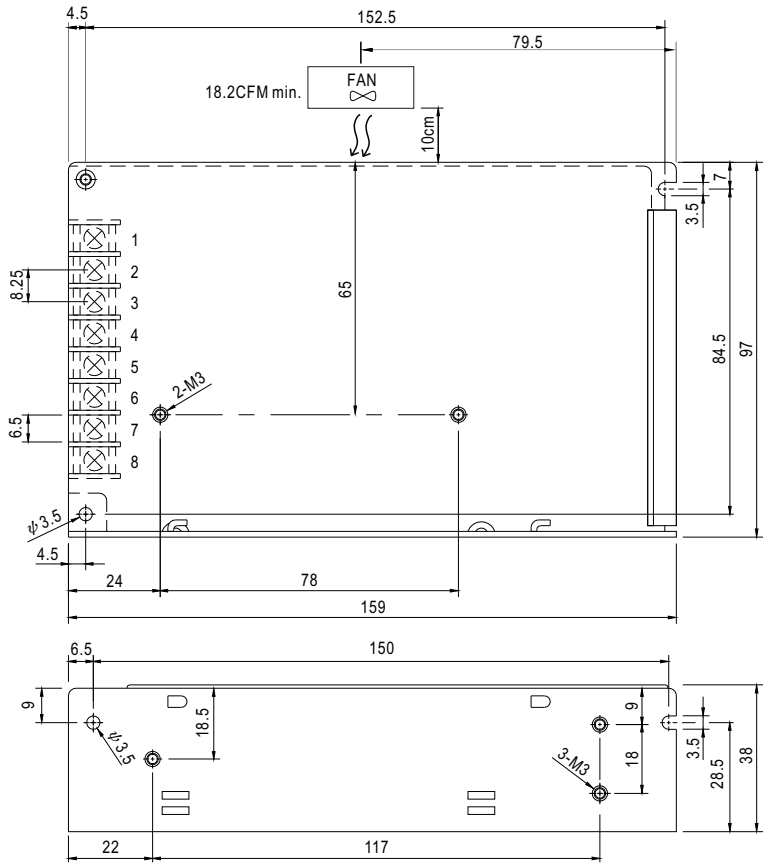
UL62368-1 EN62368-1 IEC62368-1 TPTC004

## SPECIFICATION

| MODEL | | ADD-55A | | | ADD-55B | | |
|---|---|---|---|---|---|---|---|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 |
| | DC VOLTAGE | 13.8V | 5V | 13.4V | 27.6V | 5V | 26.5V |
| | RATED CURRENT | 2.5A | 3A | 0.23A | 1.3A | 3A | 0.16A |
| | CURRENT RANGE | 0 ~ 3.5A | 0 ~ 4A | -------- | 0 ~ 2A | 0 ~ 4A | -------- |
| | RATED POWER | 52.58W | | | 55.12W | | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 100mVp-p | -------- | 150mVp-p | 150mVp-p | -------- |
| | VOLTAGE ADJ. RANGE | CH1: 12 ~ 14.5V | | | CH1: 24 ~ 29V | | |
| | VOLTAGE TOLERANCE Note.3 | ±1.0% | ±3.0% | -------- | ±1.0% | ±3.0% | -------- |
| | LINE REGULATION | ±1.0% | ±0.5% | -------- | ±1.0% | ±0.5% | -------- |
| | LOAD REGULATION | ±1.0% | ±0.5% | -------- | ±1.0% | ±0.5% | -------- |
| | SETUP, RISE TIME | 800ms, 50ms/230VAC 1600ms, 50ms/115VAC at full load | | | | | |
| | HOLD UP TIME (Typ.) | 80ms/230VAC 16ms/115VAC at full load | | | | | |
| INPUT | VOLTAGE RANGE | 88 ~ 264VAC 124 ~ 370VDC | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | EFFICIENCY (Typ.) | 71% | | | 74% | | |
| | AC CURRENT (Typ.) | 1.6A/115VAC 1A/230VAC | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 20A/115VAC 40A/230VAC | | | | | |
| | LEAKAGE CURRENT | <1mA / 240VAC | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 150% rated output power | | | | | |
| | | Protection type : AC Charging Mode : Hiccup mode, recovers automatically after fault condition is removed<br>UPS Mode : Protected by internal fuse | | | | | |
| | OVER VOLTAGE | CH1:14.49 ~ 18.63V | | | CH1:28.98 ~ 37.26V | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| FUNCTION | DC ALARM SIGNAL(OPTIONAL) | AC fail CN1 PIN2 | | | | | |
| | | Battery low under charge voltage 82.5%±2% CN1 PIN1 | | | | | |
| | | Normal 0.8V max. Abnormal 5V±0.5V | | | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +60℃ (Refer to "Derating Curve") | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85℃, 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0 ~ 50℃) on CH1 output | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL62368-1, TUV EN62368-1, EAC TP TC 004 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020 | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020 | | | | | |
| OTHERS | MTBF | 241.3K hrs min. MIL-HDBK-217F (25℃) | | | | | |
| | DIMENSION | 159*97*38mm (L*W*H) | | | | | |
| | PACKING | 0.57Kg; 24pcs/13.7Kg/0.75CUFT | | | | | |
| NOTE | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to “EMI testing of component power supplies.” (as available on http://www.meanwell.com)<br>5. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). | | | | | | |

## Mechanical Specification

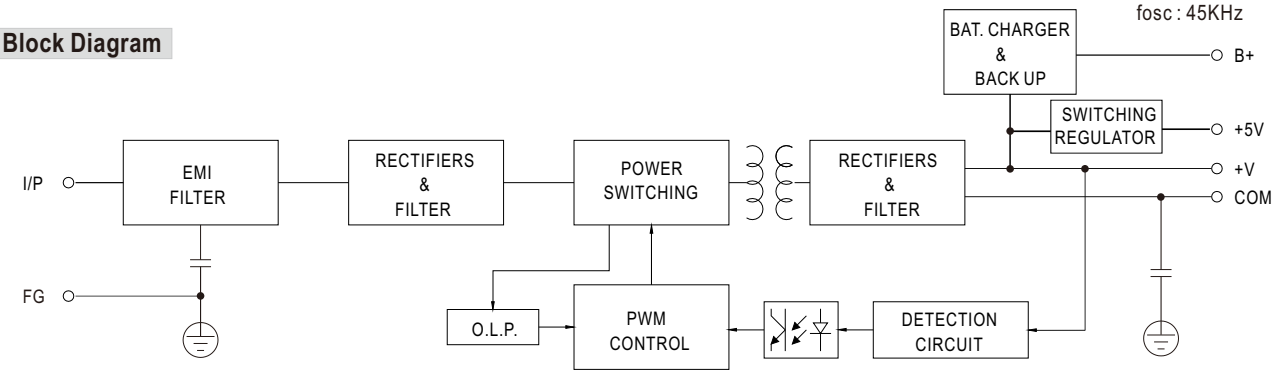
Case No. 901 Unit:mm



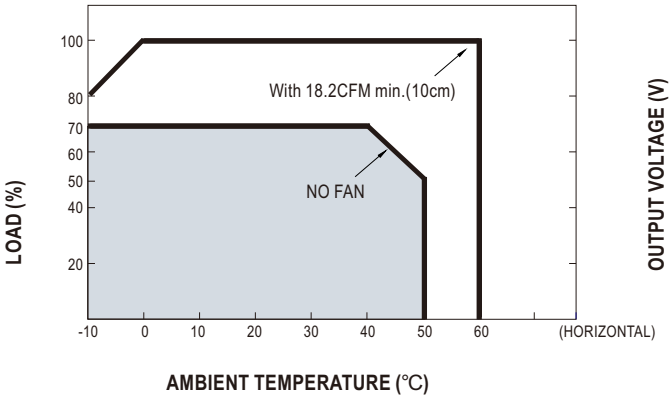

Terminal Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment |
|---|---|---|---|
| 1 | AC/L | 5 | DC OUTPUT +V |
| 2 | AC/N | 6 | BAT. + |
| 3 | FG ⏚ | 7 | BAT.-/COM |
| 4 | DC OUTPUT COM | 8 | DC/DC OUTPUT +5V |

## Block Diagram




## Derating Curve




## Static Characteristics (A)