

# 55 Watt, 1 or 2 Output Battery Back-Up Power Supply

**ALL PSU LTD**  
Electronic Power Solutions

(DC UPS units for emergency systems such as Fire, Security or Access Control etc.)

- Universal AC Input
- High Efficiency/Reliability
- 100% Full Load Burn In
- Short Circuit, Over Load, Over Voltage, Battery Low Protection
- Full Approvals : UL/CB/TUV/CE
- 2 Year Warranty
- Main Load Output + Float/Trickle Charge Output.
- Battery Back-Up PSU Solution
- AC Fail & DC Alarm Signal Options



## Specification

Input Voltage.....	88-264 VAC, (124-370 VDC)
Inrush current.....	Cold Start, 20A / 115, & 40A / 230 VAC
Output Voltage.....	See table below (outputs to load and battery)
DC Output Adjustment (O/P: 1).....	13.8 V = 12 V to 14.5 V, 27.6 V = 24 to 29 V
Over Load Protection.....	105~150% hiccup mode, (auto recovery )
Over Voltage Protection.....	O/P 1 = 105~135% of rated output voltage
Setup, Rise, Hold up time.....	800 ms, 50 ms, 80 ms @ full load & 230 VAC
Isolation Voltage.....	I/P-O/P: 3 kVAC, I/P-FG: 1.5 kVAC, 1min
Operating Temperature.....	-10 °C to 60 °C, see derating curve
Safety Standards.....	UL60950-1, TUV EN60950-1
EMC Standard.....	EN55022 Class B, EN61000-4-2, 3, 4, 5, 6, 8, 11 EN61000-3-2, 3 ENV50204
Dimensions (L x W x H).....	159 x 97 x 38 mm
Weight.....	0.57 kg
MTBF.....	AD-55 = 304.3 khrs , ADD-55 = 241.3khrs (MIL-HDBK-217F) @ 25 °C

## Models and Ratings

Single Output With Battery Charger (UPS Function)					
Model	Output 1	Float Charger		Ripple O/P 1	Eff.
AD-55A	13.8 V / 4 A	13.4 V / 0.23 A	-	100 mV	71%
AD-55B	27.6 V / 2 A	26.5 V / 0.16 A	-	100 mV	74%

Dual Output With Battery Charger (UPS Function)					
Model	Output 1	Output 2	Float Charger	Ripple O/P 1	Eff.
ADD-55A	13.8 V / 3.5A	5 V / 4 A	13.4 V / 0.23 A	100 mV	71%
ADD-55B	27.6 V / 2 A	5 V / 4 A	26.5 V / 0.16 A	150 mV	74%

Notes : ADD-55 units have second output from separately regulated 5 Volt output converter driven from output 1. Output 1 and Output 2 are both available to the load in event of AC Mains failure being powered from the battery. All units will automatically switch over to run from the battery in event of AC Mains failure and return to Mains power when the AC is reapplied.

**For mechanical & connection details see next page**

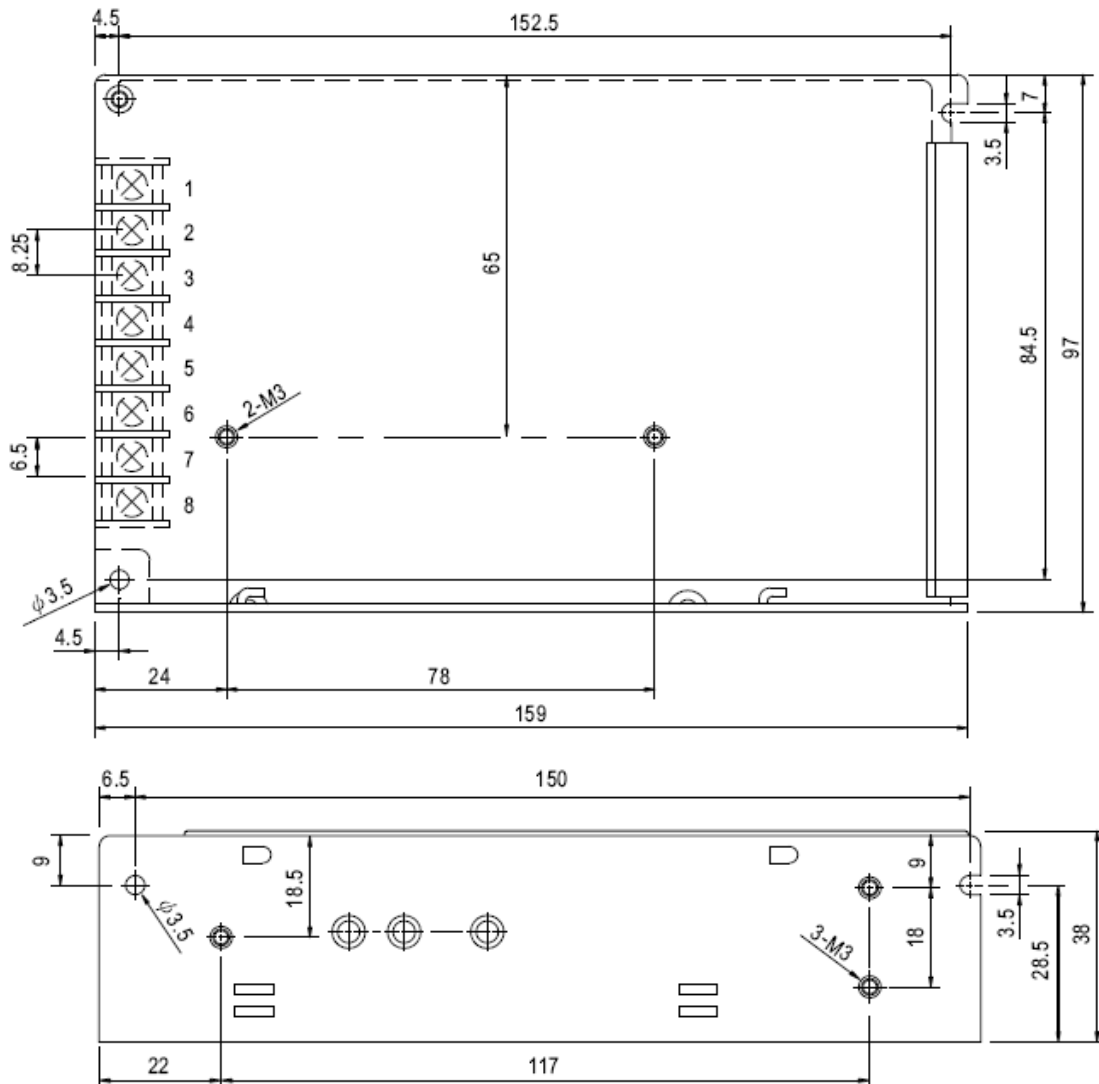
Specifications may change without notice, E&OE, ALL PSU Terms & Conditions apply.

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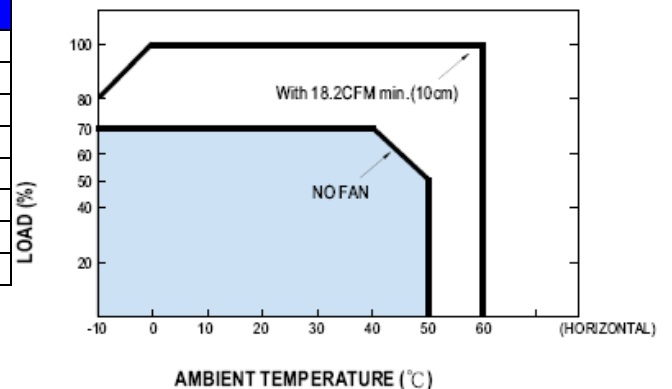
Mechanical Details (DIN Rail mounting kit also available as option)



## Connection Details

Terminal	Function AD-55	Function ADD-55
1	AC Live	AC Live
2	AC Neutral	AC Neutral
3	Input Earth	Input Earth
4	DC Output Common	DC Output Common
5	DC Output V+	DC Output 1 V+
6	Battery +	Battery +
7	Battery -	Battery -
8	N/C	DC Output 2 +5V

## Derating Curve



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