155W Dual Output with Battery Charger(UPS Function) ADD-155 series



Features :

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage
- Battery low/battery polarity protections
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at PFC 67KHz, PWM 134KHz
- 2 years warranty

GTIN CODE

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

UL62368-1 BS EN/EN62368-1 IEC62368-1 TPTC004

SPECIFICATION

MODEL		ADD-155A			ADD-155B			ADD-155C		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
	DC VOLTAGE	13.8V	5V	13.3V	27.6V	5V	27.1V	54V	5V	53.5V
	RATED CURRENT	9.5A	3A	0.5A	4.5A	3A	0.5A	2.3A	3A	0.2A
	CURRENT RANGE	0 ~ 10.5A	0 ~ 3A	--------	0 ~ 5A	0 ~ 3A	--------	0 ~ 2.5A	0 ~ 3A	--------
	RATED POWER	152.75W			152.75W			149.9W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	100mVp-p	--------	200mVp-p	100mVp-p	--------	240mVp-p	100mVp-p	--------
	VOLTAGE ADJ. RANGE	CH1: 12 ~ 14.5V			CH1: 24 ~ 29V			CH1: 48 ~ 58V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±3.0%	--------	±1.0%	±3.0%	--------	±1.0%	±5.0%	--------
	LINE REGULATION	±1.0%	±0.5%	--------	±1.0%	±0.5%	--------	±1.0%	±0.5%	--------
	LOAD REGULATION	±1.0%	±2.0%	--------	±1.0%	±2.0%	--------	±1.0%	±2.0%	--------
	SETUP, RISE TIME	1000ms, 90ms/230VAC 2000ms, 90ms/115VAC at full load								
	HOLD UP TIME (Typ.)	24ms/230VAC 20ms/115VAC at full load								
INPUT	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.92 at full load								
	EFFICIENCY (Typ.)	78%			81%			81%		
	AC CURRENT (Typ.)	2.5A/115VAC 1.5A/230VAC								
	INRUSH CURRENT (Typ.)	COLD START 23A/115VAC 45A/230VAC								
	LEAKAGE CURRENT	<1mA / 240VAC								
PROTECTION	OVERLOAD	CH1,CH2:105 ~ 135% CH3:0.51 ~ 0.9A rated output power								
		Protection type : AC Charging Mode : Constant current limiting, recovers automatically after fault condition is removed UPS Mode : Protected by internal fuse								
	OVER VOLTAGE	CH1:15.87 ~ 18.63V			CH1:31.74 ~ 37.26V			CH1:62.1 ~ 72.9V		
		Protection type : Shut down o/p voltage, re-power on to recover								
	BATTERY LOW	10V±0.8V			19.5V(+1.5V,-1V)			39V±2V		
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 +5V output								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, TUV BS EN/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 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	1744.5K hrs min. Telcordia SR-332 (Bellcore) ; 221.9K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	199*110*50mm (L*W*H)								
	PACKING	1Kg; 16pcs/16Kg/0.95CUFT								

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF & 47 μF 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. 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
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).

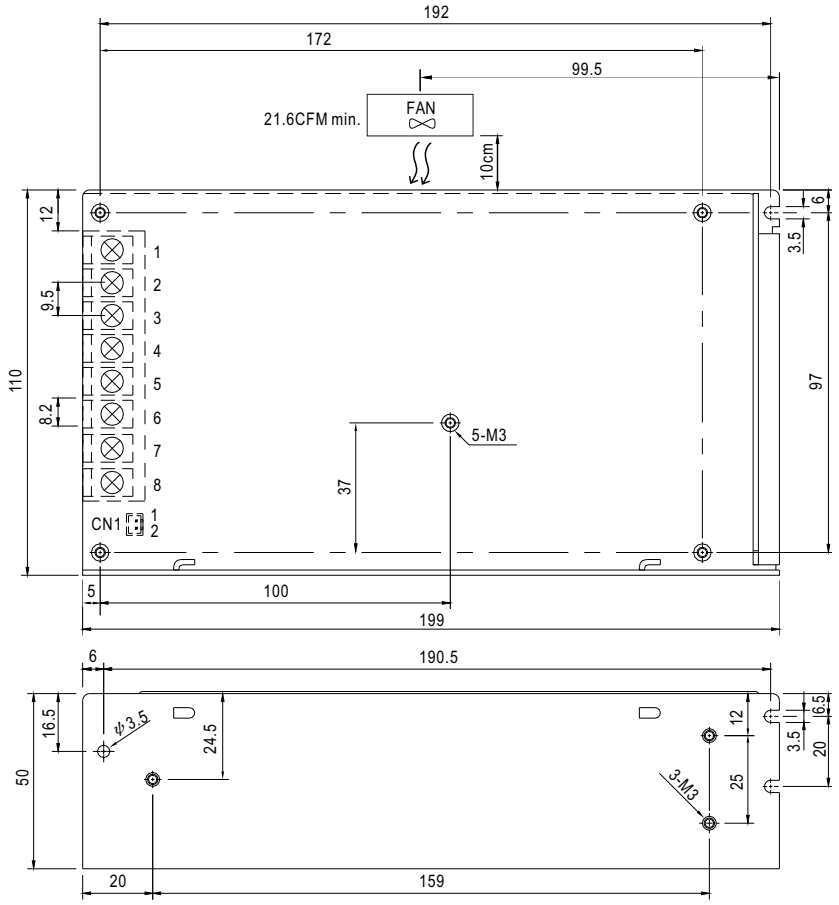
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

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■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)

Case No. 906



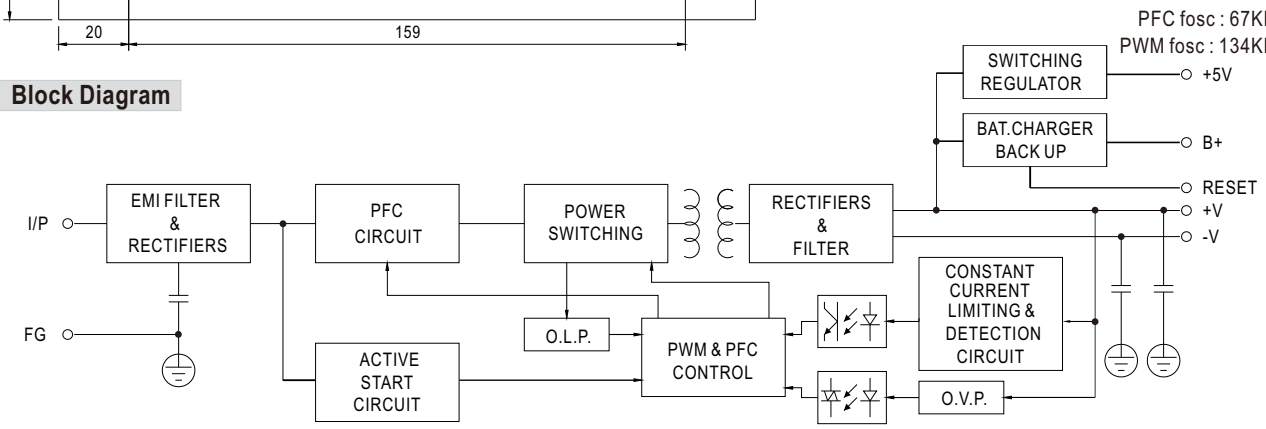
Terminal Pin No. Assignment

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

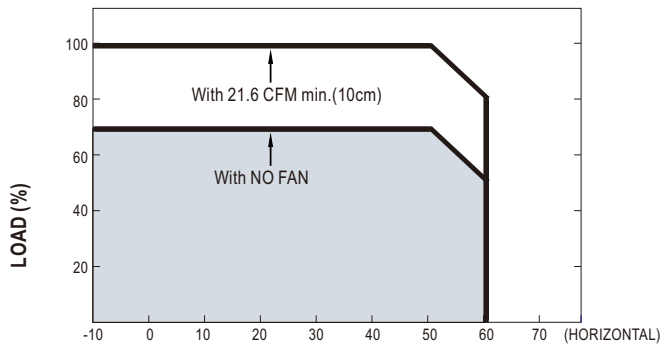
CN1 Pin No. Assignment :JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	RESET SW	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2			

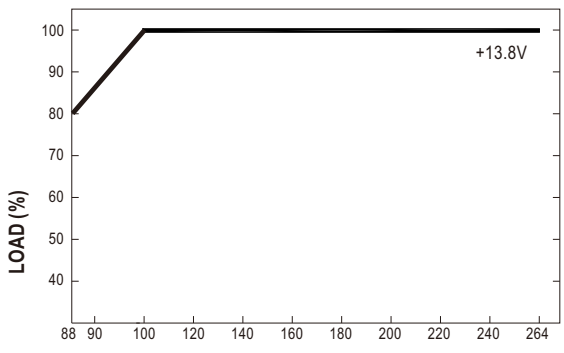
■ Block Diagram



■ Derating Curve



■ Output Derating VS Input Voltage (A)



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