

E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

155W Battery Charger Power supply> AD-155



■ Features :

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







SPECIFICATION

MODEL		AD-155A		AD-155B		AD-155C		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2	
OUTPUT	DC VOLTAGE	13.8V	13.3V	27.6V	27.1V	54V	53.5V	
	RATED CURRENT	10.5A	0.5A	5A	0.5A	2.7A	0.2A	
	CURRENT RANGE	0 ~ 11.5A	0 ~ 0.5A	0 ~ 5.5A	0 ~ 0.5A	0 ~ 2.7A	0 ~ 0.5A	
	RATED POWER	151.55W		151.55W		156.5W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p		150mVp-p		240mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 12 ~ 14.5V		CH1: 24 ~ 29V	I i	CH1: 48 ~ 58V		
	VOLTAGE TOLERANCE Note.3	±2.0%		±1.0%		±1.0%		
	LINE REGULATION	±0.5%		±0.5%		±0.5%		
	LOAD REGULATION	±0.5%		±0.5%		±0.5%		
	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.)	80% 84% 84%						
	AC CURRENT (Typ.)	2.5A/115VAC 1.5A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 23A/115VAC 45A/230VAC						
	LEAKAGE CURRENT	<1mA/240VAC						
PROTECTION	OVERLOAD	CH1:105 ~ 135% CH2:0.51 ~ 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 ~ 18.63\	1	CH1:31.74 ~ 37	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,-1	V)	39V±2V	39V±2V	
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-20~+85°C, 10~95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH						
(Note 4)	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	183.3K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	199*110*50mm (L*W*H)						
	PACKING	0.88Kg; 16pcs/15Kg/0.95CUFT						
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up The power supply is consided a 360mm*360mm metal plate perform these EMC tests, specific measurements.	Use the component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit or attemption of 3.5°C/1000m with fapless models and 6.5°C/1000m with fapless models an						

5. 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).



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