



▪ Features

- 100-240Vac Input for Worldwide used with wall mount plug US, EU, UK, AU
- Perfect for Charging all Lead-Acid 12V Batteries AGM, GEL, WET
- Fully Automatic 7 Stages Charging process by MCU Controlled
- 4 Leds Indicator for Battery Charging 25%-100%, An independent Failure Indicator
- Adaptive Charging Mode, Maintaining the Deep Cycle Battery
- Protections: Short Circuit / OVP / OCP / Overload / Polarity Reversed / Bad Battery
- 100% Full Load and Burn-In test
- High Efficiency, Long Life and High Reliability
- 2 Years Warranty

▪ Description

This is a smart Microprocessor-Controlled Battery Charger with Built In, it has the ability to Automatically Charge 12V Lead Acid Batteries from 7Ah up to 100Ah, While beginning to Charge, the Charger will sense the Battery Voltage, totally Discharge Battery (below 3V) or bad Battery, the Battery Charger circuitry will not start due to its internal safety circuit, and the fault indicator light will ON.

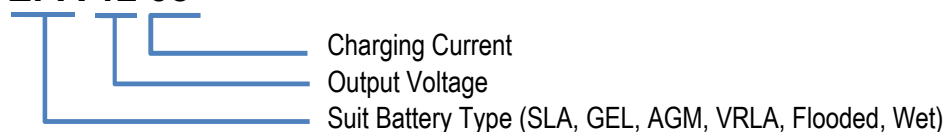
The charger is completely automatic and can be left on whenever Input Power is made available to the Charger, A adaptive Charging Mode make the Charger Output depends on the condition of the Battery. It is Charging, when the Battery is Fully Charged, the indicating light will turn Green and the Charger will switch itself to a Storage Charge Mode and will Automatically monitor and maintain the Battery at full Charge.

▪ Light Indication

LED Signal	Indication	Status
Power	Lighting	AC Power is Connected
25%	Lighting	Recovery
25% - 100%	Flashing	Battery Charging
Fault	Flashing	Reverse Polarity
Fault	Lighting	Bad Battery
100%	Lighting	Full / Maintenance

▪ Model Encoding

EPA 12 05

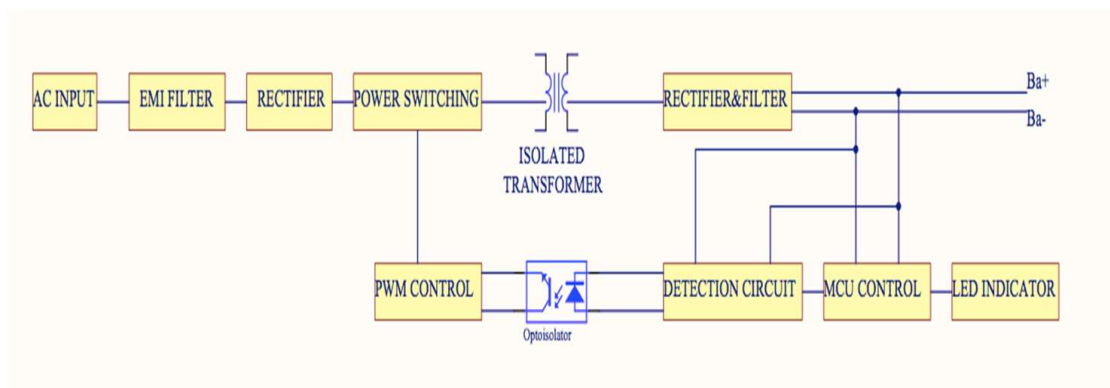


▪ Specification

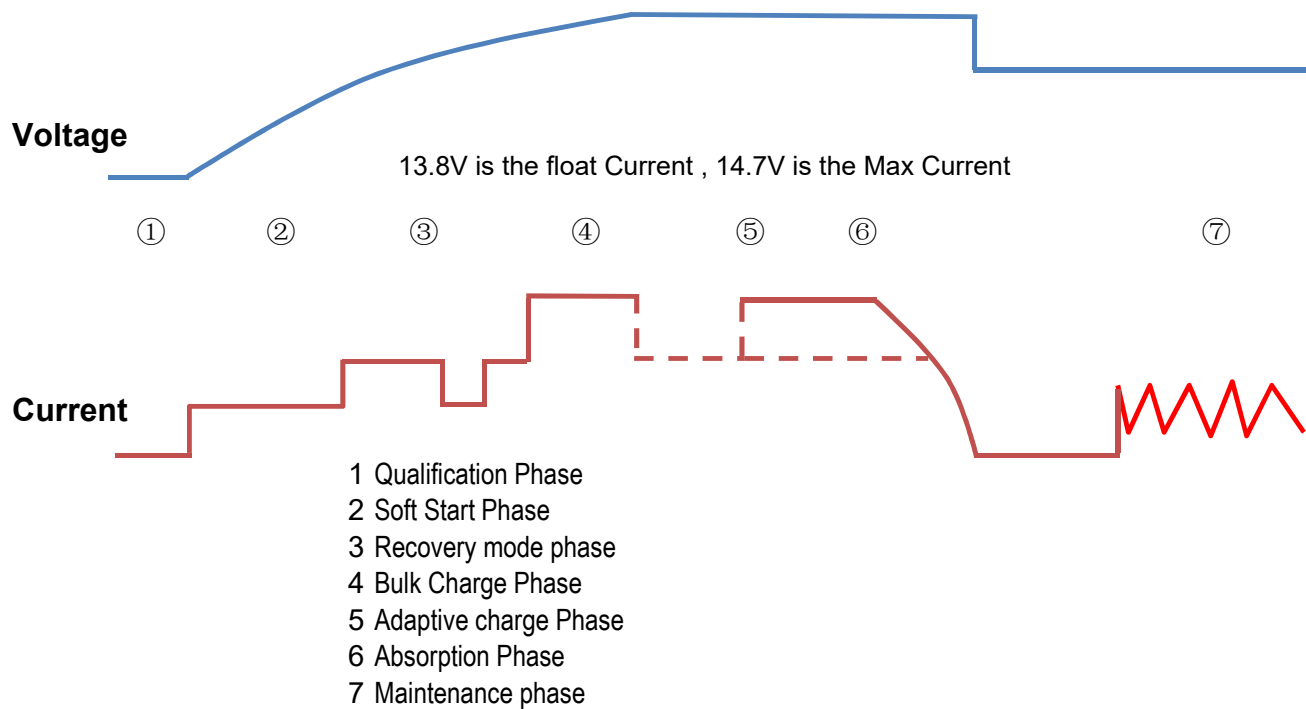


Model	EPA-1205	
Output	DC Voltage	12V
	Rated Current	5A Max.
	Rated Power	70W
	Voltage Range	3 - 15V
	Start Voltage	> 3V
	Current Range	±0.2A
	Voltage Tolerance	±1%
	Line Regulation	±0.5%
Input	Voltage Range	100 - 240Vac
	Frequency Range	47 - 63Hz
	Efficiency	80%
	AC Current	0.5A/230Vac
Function	Charging Process	7 Stages by MCU Controlled
	Charging Mode	Fully Automatically
	Floating Charge Condition	0.75A
	Charging Indicator	LED Display Frame
	Suit Battery	7-100Ah Lead-Acid Batteries
	Charging Time	3 to 72 Hours
Protection	Over Voltage	15V (Limited)
	Over Load	110~140% Rated Output Power
	Output Short Circuit	Fault LED Light/ Auto Recover after Fault condition is removed
	Polarity Reversed	Fault LED Light/ Auto Recover after Fault condition is removed
	Bad Battery	Fault LED Flashing
Environment	Working TEMP.	-10°C ~ +50°C
	Working Humidity	90% RH Non-Condensing
	Storage TEMP. / Humidity	-10°C ~ +50°C RH 90%
	Cooling	Natural Convection
	IP Grade, Waterproof	IP64 Dust Protected, Water Splashing Resistance
	Impact Test	1 Meter Drop Test > = 3 times
Safety	Safety Standards	CE, PSE, SAA, FCC, EN60950-1, EN55022, EN6900 RoHS
	EMC Standard	T.B.D.
	MTBF	30000 Hours MIL-HDBK-217F
	ESD	8kV
	Isolation Resistance	I/P to O/P: 3000Vac (1 min.)
	Max. TEMP. Rise	< 40°C on Casing
Mechanics	Weight	400g
	Size	150 x 70 x 56mm
	Case	Plastic PC945

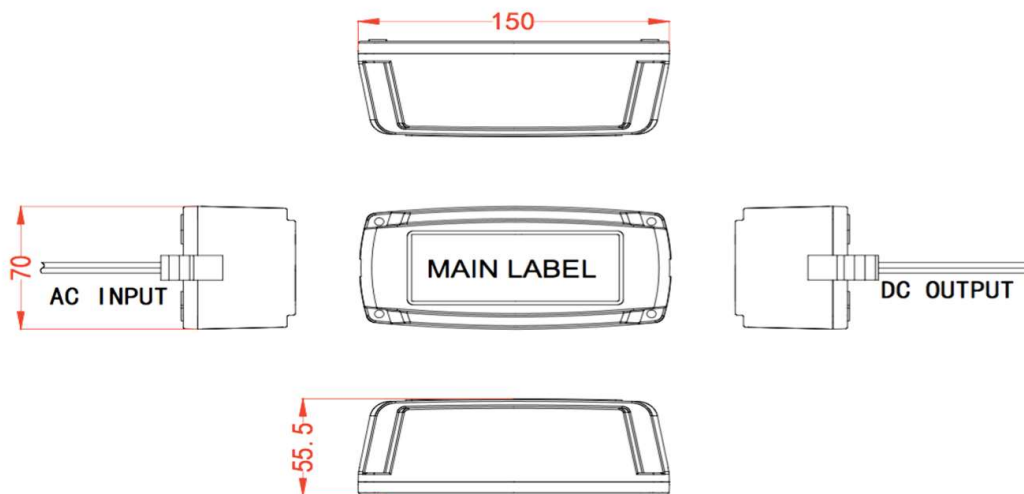
▪ Block Diagram



▪ 7 Stage Charge, Conditioning and Maintenance process Map



▪ Mechanical Specification



▪ DC Cable & Connector



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