



5-Stage Charging



Pulse Charging



Quick Charge



Digital Display



High frequency technology



Light weight



Multiple electronic protection

## Applications

- Marine & other Rugged Environments
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- OEM Applications
- Field Work / Construction Sites
- Solar Power Systems
- Emergency Power Backup (UPS)
- Security Systems

## Battery Chargers

Series EASY Charger 12V

### Description

The EASY Charger Series is designed to charge batteries at least 25% faster than most standard chargers.

It provides multi stage charging algorithm for quick and safe charging of wet, AGM and gel batteries. Inbuilt electronic protection circuits are designed for maximum charger protection and high operational availability.

With the inbuilt, programmable timer, the charger is able to limit equalize charging time (stage 2).

The robust aluminium enclosure is suitable for marine, mobile and industrial applications.

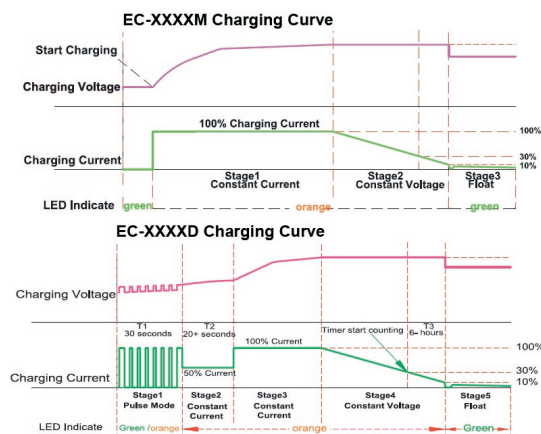
### Features

- Fast and reliable multi stage charging
- Programmable timer to limit Absorption / Equalize charging time (D models only)
- High frequency switching topology
- SMD technology for small size and long life time
- Low ripple DC-output
- ON- / OFF switch
- Output short circuit protection
- Over load protection
- Standard dual bank output (1230 only)
- Multi information displays
- Compact size, light weight
- Meets CE, RoHS

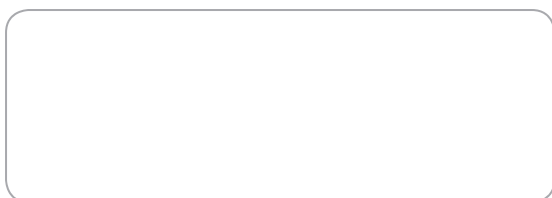
# Specifications ( Specifications Subject to Change Without Notice)

MODEL		EC-1202M	EC-1206	EC-1210M	EC-1210D	EC-1220M	EC-1220D	EC-1230M	EC-1230D	
Input	Voltage	AC100~240V				AC200~240V		AC200~240V		
	Frequency	47~63HZ								
Output	Bulk Charge	14.7 +/-0.1	14.7V +/-0.2V							
	Floating Charge	13.7 +/-0.1	13.7V +/-0.2V							
	Current	2A +/-0.2A	6A +/-0.3A	10A +/-0.5A		20A +/-1A		30A +/-1.5A		
	Rated Power	30W	88W	150W		300W		450W		
	Efficiency	>85% ( at full load)								
	Dualbank	N/A			N/A		N/A		Yes	
Protections	Current Limit	Yes								
	Short-Circuit	Yes, unit shut off								
	Overload	Yes, max. current limited								
	Over-Temp.	Yes, auto restart								
	Reverse polarity protection	electronically				electronically			by fuse *	
Indication **		LED	LED	LCD & LED	Digital Meter & LED	LCD & LED	Digital Meter & LED	LCD & LED	Digital Meter & LED	
Functions	Programmable timer for Absorption / Equalize mode	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes	
	Charging Curve	3-Stage	3-Stage	5-Stage	5-Stage	5-Stage	5-Stage	5-Stage	5-Stage	
	Cooling Fan	N/A	Speed control by charging stages							
Environment	Operating Temperature Range	-10° to 50°C, derating 2% per°C from 40°C								
	Humidity	5 - 95% non-condensing								
Labels	EMI	Compliance to EN55014-1 Class B								
	Standards	CE, RoHS								
Mechanical	Dimensions	117*70*40	155*70*48	167*103*50mm		190*118*58mm		275*152*70mm		
	Weight	0.35KG	0.5KG	0.9KG		1.2KG		2.4KG		
	Connections AC	AC-Connector								
	Connections DC	DC Alligator Clips				DC Alligator Clips		Clamps		
	Protection Category	IP20								
* Unit may be destroyed when battery is wrong connected										
** Tricolor LED; red, green, yellow / LCD; charge status / Digital Meter; VDC, ADC, AH, Battery charge level %, Charging time										
Options: 6V/24V/36V/48V models, Charging Current from 6 up to 95A and OEM and special units on request										

**RoHS Compliant**  
Directive 2002/95/EC



**Available from:**



**RIPEnergy**

The power conversion company

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