



## 5-STAGE BATTERY CHARGER 24V

### SERIES EASY CHARGER

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

It provides multistage charging algorithm for quick and safe charging of lead acid 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.

### APPLICATIONS

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

### 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 (2417 only)
- Multi information displays
- Compact size, light weight
- Meets CE, RoHS



Digital display



High frequency technology



Light weight, compact size



Full electronic protection



Programmable

# SPECIFICATIONS

MODEL		EC-2401M	EC-2404	EC-2407D	EC-2412D	EC-2417D
Input	Voltage	AC100~240V			AC200~240V	AC200~240V
	Frequency	47~63HZ				
Output	Bulk Charge	29.4V +/-0.2V				
	Floating Charge	27.4V +/-0.2V				
	Current	1.2A +/-0.2A	4A +/-0.2A	7A +/-0.4A	12A +/-0.6A	17A +/-0.8A
	Rated Power	42W	117W	200W	350W	500W
	Efficiency	>85% ( at full load)				
	Dualbank	N/A	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	Digital Meter & LED	Digital Meter & LED	Digital Meter & LED
Functions	Programmable timer for Absorption / Equalize mode	N/A	N/A	Yes	Yes	Yes
	Charging Curve	3-Stage	3-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				Clamps
	Protection Category	IP20				

\* Unit may be destroyed when battery is wrong connected

\*\* Tricolor LED; red, green, yellow / 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

