

## Automatic 3 Stage Battery Charger

### ENC series-ENC2410(24V10A)

Lead Acid  
Battery Charger



#### Features: ■

- 3 stage (IUoU) switching model lead acid battery charger ◀
- Battery can be connected to charger indefinitely ◀
- Power ON/OFF switch ◀
- AC Input Voltage Range Selectable : 90~165V / 190~265V ◀
- Protections : short circuit, overload, ◀
- over-temperature, reverse polarity (fuse) ◀
- Temperature Sensor: optional ◀
- Simple operations and maintenance ◀
- Silent cooling fan operation ◀
- LED indicates for bulk, absorption, float, charge status fault and ◀
- power ON/OFF

#### ■ Specification:

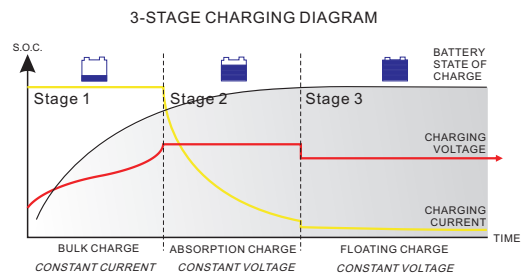
Model		ENC2410				
Output	DC Voltage	24V	Input	AC voltage range	90-165V or 190-265V 50/60Hz	
	Restrict Voltage	29.2V±0.2V		Fuse	AC	3A
	Floating Voltage	27.5V±0.2V			DC	15A
	Max.Power	288W	Efficiency at max. power	110V:>83% 230V:>87%		
Max Charging Current (continuous)	10A	Size		235*102*55.5mm		
Protection	Reverse Polarity	O/P cut-off, auto-reset				
	Short Circuit	O/P cut-off, auto-reset				
	Overload	O/P current-limited				
	Over-temp.	Inner temp. ≥80°C, auto.shut off				
	OVP (output over voltage protection)	Yes				
Battery Low Voltage Protection	Yes					
Included Accessories	Cable Length:1.5m, Plug type selectable & spare fuse					
Optional Accessories	temperature sensor					
Remarks	Specification prior to change without notice					

#### Plug Type (optional)



#### ■ Normal 3-Stage (IUoU)Charging Operation

The 3 stage IUoU charge algorithm ensures fast, complete and at same time gentle charging of the lead acid battery.



State	Name	Explanation	Specification
Stage 1	The Constant Current Charging.	Normally the battery is charged at constant maximum current until it rises to absorption voltage level. The charging voltage changes with the battery voltage.	Full Load Charge
Stage 2	The Constant Voltage Charging	When the battery voltage rises to the absorption voltage level, the charging switches to constant voltage charging and battery is over 85% full. The battery is kept at this high voltage while the current reduces gradually to set value at which the charger automatically switches to float stage.	14.5V±0.2V
Stage 3	The Floating Voltage Charging	In this stage, the battery is full and only takes in the amount of current necessary for maintaining the capacity.	≤1.2A

Note: If you need charge for GEL battery, please let us know before place order we can adjust the charge voltage.

#### ■ Temperature Sensor ( Optional)

When an external temperature sensor(optional accessory ) is installed, the controller will adjust the bulk and float charge voltage according to the temperature of the battery battery. The regulation setpoint is 25°C.The controller adjusts the bulk and float setpoints - 0.03V/°C.

Only the factory provided temperature sensor can be used. If no temp.sensor is installed, the controller will set the temperature of the battery at 25°C.

Plug in the temp.sensor before switch on the charger to activate the temperature control function, neave plug in the charger during the charging.

Stick the temperature sensor in a position on the battery and ensure it is not effected by other cooling or heating source.

#### ■ Installation

