# Automatic 3 Stage Battery Charger ENC series-ENC2410T(24V10A)



- 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,
    - Temperature Sensor: optional <
    - Simple operations and maintenance <
      - Slient coolling fan operation <
- LED indicates for bulk, absorption, float, charge status fault and < power ON/OFF

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# ■ Specification:

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Model		ENC2410					
	DC Voltage	24V	Input	AC voltage	90-165V or 190-265V		
Output	Restrict Voltage	29.2V±0.2V		range	50/60Hz		
	Floating Voltage	27.5V±0.2V	Fuse	AC	3A		
	Max.Power	288W	ruse	DC	15A		
	Max Charging Current (continuous)	10A	Efficiency at max. power	110V:>83% 230V:>87%			
			Size	235*102*55.5mm			
	Reverse Polarity	O/P cut-off, auto-res					
	Short Circuit	O/P cut-off, auto-res	Aut 3 Stage Charles and States Charles States Charles States Charles C				
	Overload	O/P current-limited					
Protection	Over-temp.	Inner temp. ≥80°C, auto.shut off	◆ AUTOMATIC				
	OVP (output over voltage protection)	Yes					
	Battery Low Voltage Protection	Yes		Distance Circuit Plants Flatty Protection Circuit Date Strip			
Included Acessories	Cable Length: 1.5	m, Plug type selectable &					
Optional Acessories	te	temperature sensor			Design,		
Remarks	Specification						

### ■ Temperature Sensor ( Optional)

When an external temperature sensor(optional accessory ) is installed, the controller will ajust the bulk and float charge voltage according to the temperature of the battery battery. The regualtion 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.

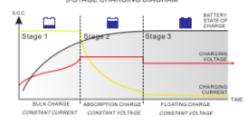
### Plug Type (optional)

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UBA	fiely	CE	Japan Library	Awarella	Smil Europe Type	South Affice	Universal

# ■ 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.

### 3-STAGE CHARGING DIAGRAM



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 45% 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.

## Installation

