



- Features: ■
- PWM charge mode ▲
  - 3 stage charge way ▲
  - Temperature Compensation ▲
  - Non-Trigger Charger ▲
  - Voltage, Current Meter display ▲
  - 3 LED indicators ▲
  - High speed cooling fan ▲
  - Dual fuse protection ▲
  - USB output ▲
  - High efficiency ▲
  - Battery can be connected to charger indefinitely. ▲
  - Power ON-OFF witch ▲

**20A** MAX. CHARGING

**3s AUTO.**

**5V, 500mA** **USB**

**24V** DC OUTPUT

**2 YEAR LIMITED WARRANTY**

AC Output Receptacles(optional)



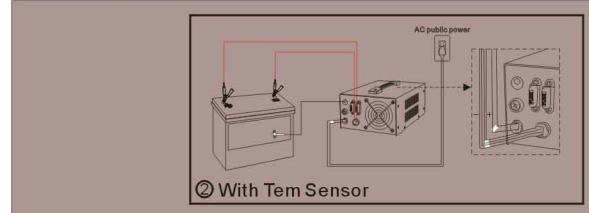
**Specification:**

Model		ENC2420				
Output	DC Voltage	24V	Input	AC voltage range	90-165V or 190-265V 50/60Hz	
	Restrict Voltage	29.2V±0.2V		Fuse	AC Fuse	3A
	Floating Voltage	27.5V±0.2V			DC Fuse	15A*2
	Max. Wattage	576W	Efficiency at max. power	110V:>83% ; 230V:>87%		
	Max output charging current (continuous)	20A		Dimensions	235*102*55.5mm	
USB(selectable)	5V 500mA					
Protection	Battery Reverse	O/P Cut-off,Auto-Recover		Auto 3-Stage Battery Charger		
	Short Circuit	O/P Cut-off,Auto-Recover		Constant current, Constant Voltage, Floating Charge		
	Over load	O/P Current-Limited		AUTOMATIC		
	Temperature	Inner Temp. More than 80°C, auto.shut off		USB 5V=500mA (selectable)		
	Temperature Compensation (selectable)	-3~ 3.5mV/cell. °C+/-8% (-24mV/°C+/-8%)		Universal Protection Circuit		
Remarks	All values are based on the standard ambient temperature 25°C and pressure 0.1 Mpa					
AC Cables	Length:1.5m Plug:selectable					

**Temperature Sensor**

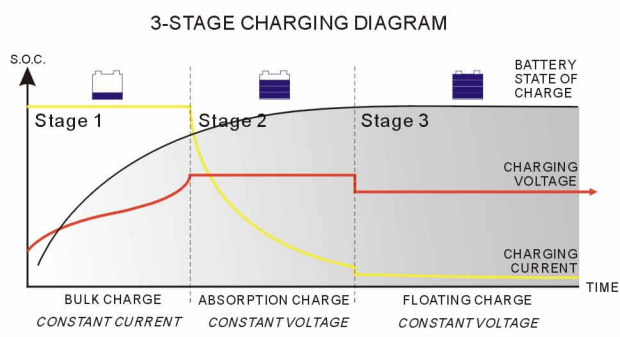
The temperature sensor (accessory, CU50) is used to optimal charging over wide ambient temperature range. Stick the temperature sensor in a position on the battery which is not effected by other cooling or heating source. Plug in the temperature sensor before switch on the charger to activate the temperature control function, never plug in the charger during charging. Note: Please reference to picture 2.

**Battery Charger Installation and Collection.**



**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.	24V: 29.2V±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.	≤2A

