



ENC series ENC1220

- Features:
- ON/OFF Switch. ◀
- I/P Voltage range: SelectableAC90-165V(110V) or ◀ AC190-265V(230V)
- Battery Status Indicators: Red displays fault, Green LED displays power ON, white LED (dual color LED) shows
- red displays undering charging and green displays float charge).

 Short Circuit Protection:Charger O/P cut-off automatically when
 overloadIntelligent Temperature Compensation:

 Adjust charging voltage to compensate for

battery temperature,providing an accurate charge in any climate.

Overcharge Protection:Constant ◀

voltage & constant current output avoid overcharging.

3s AUTO.20A

MAX.CHARGING



2YEAR
LIMITED
WARRANTY



AC Output Recepatacles(optional) A*1ea B*1ea E*1ea D*1ea F*1ea U*1ea USA ALISTRALIA LLK GERMAN FRANCE INNIVERSAL PLUG

■ Specification:

Model		ENC1220			
	DC Voltage	12V	Input	AC voltage	90-165V or 190-265V
Output	Restrict Voltage	$14.5 V\!\pm\!0.2 V$		range	50/60Hz
	Floating Voltage	13.8V±0.2V		AC Fuse	3A
	Max.Wattage	280W	Fuse	DC Fuse	25A
	Max output charging curr ent (continuous)	20A	Efficiency at max. power	110V:>83%; 230V:>87%	
	USB(selectable)	5V 500mA	Dimensions	195*102*55.5mm	
Protection	Battery Reverse	O/P Cut-off,Auto-Recover			
	Short Circuit	O/P Cut-off,Auto-Recover		Auto 3-Stages Battery Charges Plosting Charge	
	Over load	O/P Current-Limited			■ AUTOMATIC
	Temperature	Inner Temp. More than 80℃, auto.shut off			AUTOMATIC
	Temperature Compensation (selectable)	-3~3.5mV/ceII. °C+/-8% (-24mV/°C+/-8%)		USB USB	3 5V == 500mA (selectable)
Remarks		used on the standard ambient C and pressure 0.1 Mpa		Protection Ci	Cuit Overload Over Temp.
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.

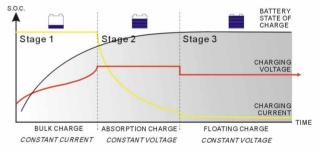
Plug in the temperature sensor before switch on the charger to activate the temperature control function, never plug in the charger during charging.

Note: Please reference to picture 2.

■ Normal 3-Stage (IUoU)Charging Operation

The 3 stage IUoU charge algorithm ensures fast, complete and at same timegentle 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 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.	12V: 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.	≤2A

■ Battery Charger Installation and Collection.

