

# INVERPERFECT

(BEST USAGE FOR INVERTERS & SOLAR APPLICATIONS)

## Product Features

Heavy duty tubular plates providing excellent cyclic life with deep cycle capabilities.  
Recommended for inverter and solar applications.  
Level indicators for easy maintenance.  
Balanced plate design for improved charge acceptance & excellent deep discharge recovery.  
Positive Plate: lead dioxide.  
Negative Plate: lead.  
Container, Cover, Vent Plug: PPCP.  
Terminal: lead alloy.  
Separator: poly ethylene.  
Electrolyte: Dilute sulfuric acid.

### CYCLE LIFE:

- > 1250 cycles @ 80% DoD
- > 2500 cycles @ 50% DoD
- > 5000 cycles @ 20% DoD



## Advantages

Highly reliable compared to conventional flat plate / flooded battery.  
Faster charging is one of the notable feature in Tubular batteryu.  
Low maintenance - No need to top-up with distilled water frequently.

## Main Parameters

Model	Nominal Voltage	CO Capacity at 27 C till 10.5V (Test gravity 1.240 ± 0.005)*	Overall Dimensions			Filled Wt
	(V)		(Ah)	Length	Width	
ITT-150	12.0	150	± 3 mm	± 3 mm	+ 3 mm	+ 5% kg
			503	189	411	57.0



**TUBULAR  
FLOODED BATTERY**

**MODEL: INV -150**  
[ 12v 110 AH/ 10HR ]

**MODEL: INV -190**  
[ 12v 140 AH/ 10HR ]

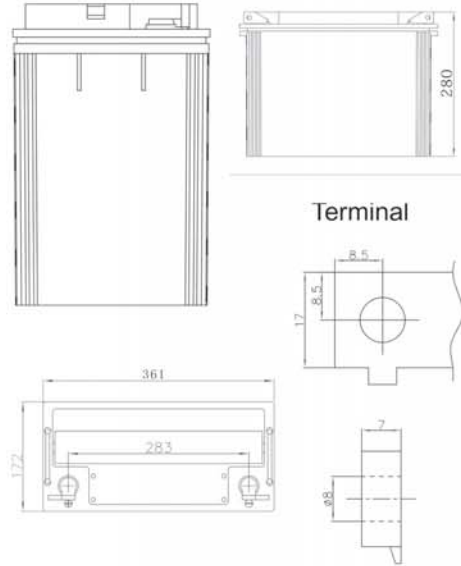
Inv 190 series battery is mainly used for Solar Inverter / Solar systems power supply of electric tricycle, also for other DC power supply. The battery is mainly composed of positive plate, negative plate, separator, pole, battery case, vent plug and electrolyte. Each cell is connected through the partition welding. Each battery's voltage is 12V; the batteries of the same spec. are connected in series groups according to the prescribed amount. The battery is a good power battery, featuring large capacity, high energy ratio, good high current discharge performance, long service life, safety and reliability, maintainability.

**Specification**

Cells Per Unit	6
Voltage Per Unit	12
Capacity	120Ah@5hr-rate to 1.72V per cell @25°C 140Ah@10hr-rate to 1.80V per cell @25°C
Weight	Without Electrolyte 28.0 kg With Electrolyte 38.0 kg
Internal Resistance	Approx. 4.5 mΩ
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current	24 A
Equalization and Cycle Service	15.3 to 15.9 VDC/unit Average at 25°C
Self Discharge	HAC Valve Regulated Lead Acid batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Container Material	PP
No of Cycles	70% 850 cycles
No of Cycles	50% 1200 cycles

**Dimensions INV-150**

Unit: mm Dimension: 361(L) × 172(W) × 280(H)



**Dimensions INV-190**

Unit: mm Dimension: 361(L) × 172(W) × 295(H)

