

- Unique European energy storage technology. First Choice in North America and Europe.
- Maximum performance.
- Specially designed to use for all solar applications even in extreme temperature conditions.
- Super long lifetime, very low maintenance and long shelf life.
- Panoply spine for lower corrosion and enhancing life.
- Suitable for Home and Industrial application.
- Durable and sustainable with extra-long cycles.



SPECIFICATION

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@10hr-rate to 1.75V per cell @27°C
Gross Weight	Approx. 66 Kg ± 3%
Battery Weight without Acid	41 Kg ± 3%
Negative Plate	Pasted Negative Plates
Positive Plate	Tubular Positive Plates
Separator	Ragged & Porous to minimize stratification and improves performance
Vent Plug	Microporous Ceramic Vent Plug
Normal Operating Temperature Range	27°C ± 5°C
Equalization Voltage	16.2V ± 0.2V
Self-Discharge	Very Low
Water Loss	Low



CONDITIONS OF FULLY CHARGED BATTERY

- Consecutive hourly reading of specific gravity and Voltage becomes constant.
- Maximum charge voltage will be around 16.2 ~ 16.5V
- All Cells should be free from gas.
- Specific Gravity at fully charged condition 1.240±0.005 at 27°C.
- Depth of Discharge – Designed life cycle at C20 discharge at 27°C
 - 1500 Cycles to 80% DOD
 - 3000 Cycles to 50% DOD
 - 5000 Cycles to 20% DOD

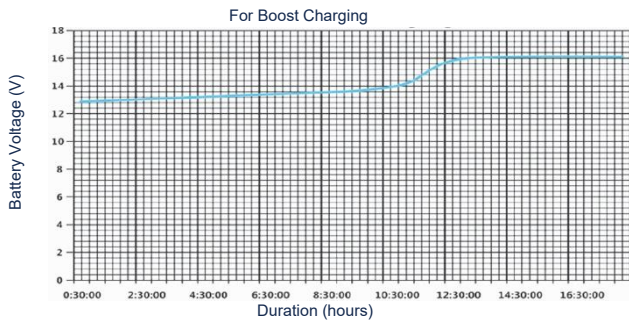
BATTERY RATING CHART @ 27°C

Model	C20@10.5	C10@10.5	C7@10.5	C5@10.5	C3@10.5	C1@10.5
HP12-200STT	230	200	185	170	145	100

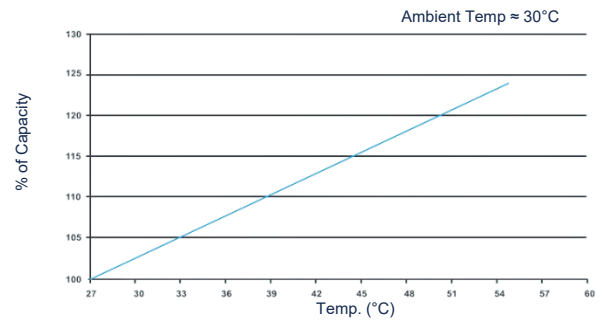
CHARGING METHOD

Usage	Temperature (°C)	Charging Voltage (V/Cell)			Charging Current (A)
		Battery Type	Rated Voltage	Allowed Range	
Cyclic Use	27°C	Tall Tubular	2.45	2.44 – 2.46	0.2C for 12V block
Float Use	27°C	Tall Tubular	2.29	2.28 – 2.30	

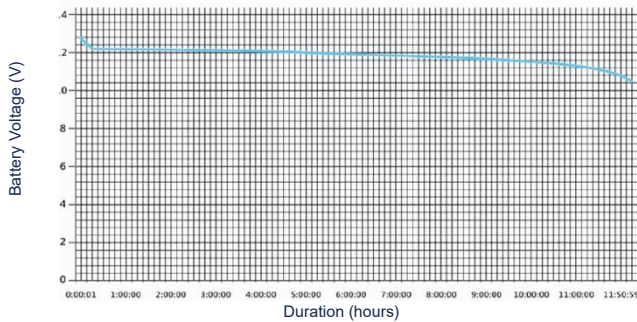
CHARGE CHARACTERISTICS GRAPH



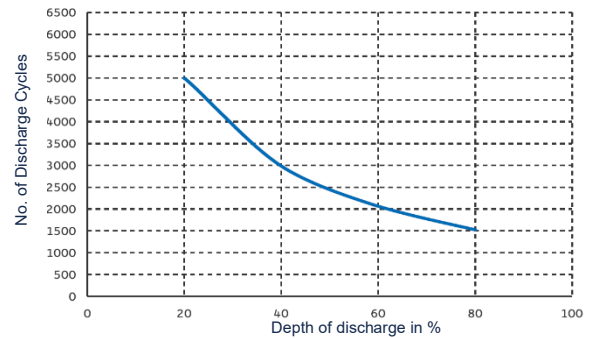
TEMPERATURE VS CAPACITY



DISCHARGE CHARACTERISTIC GRAPH



CYCLE LIFE VS DOD

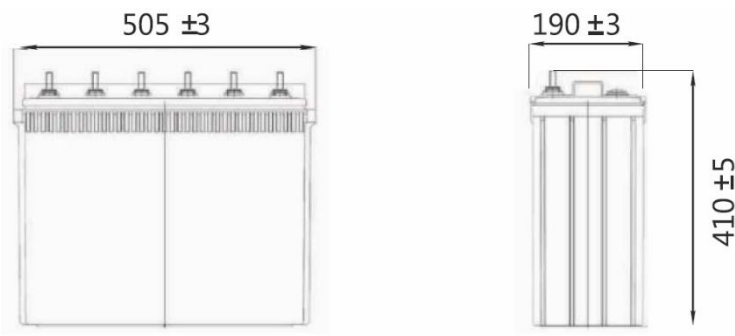


MAINTENANCE AND CAUTIONS

- 1) New battery and old battery shall not be used together, and batteries from different makers or in different capacity shall not be used together either.
- 2) Please start from positive pole for any connection. Torque for connection: M5 Torque :6N -m ~ 7N -m, M6 Torque: 8N-m~10N-m, M8 Torque: 10N-m~12N-m.

DIMENSIONS

(Unit: mm) (L x W x H = 505 x 190 x 410)



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