

- 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 life time, very low maintenance and long shelf life
- Durable and sustainable with extra long cycles
- Panoply Spine for lower corrosion and enhancing life
- Suitable for Home and Industrial Application



SPECIFICATION

Cells Per Unit	6
Voltage Per Unit 12 1212	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 Plates	Pasted Negative Plates
Positive Plates	Tubular Positive Plates
Separator	Ragged and Porous to minimize stratification and improves performance
Vent Plug	Micro porous 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 become constant
- Maximum charge voltage will be around 16.2V-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 cycle to 80% DOD
 - 3000 cycle to 50% DOD
 - 5000 cycle to 20% DOD



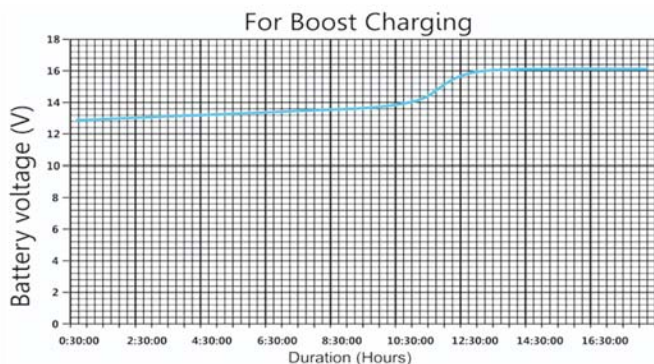
Battery Rating Chart @ 27°C°

	C20@10.5V	C10@10.5V	C7@10.5V	C5@10.5V	C3@0.5V	C1@10.5V
HP12-200STT @C10	230	200	185	170	145	100

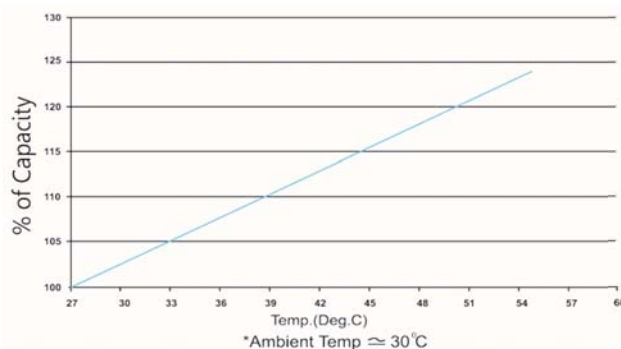
Charging Method

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	02.C for 12V block
Float Use	27°C	Tall Tubular	2.29	2.28 - 2.30	

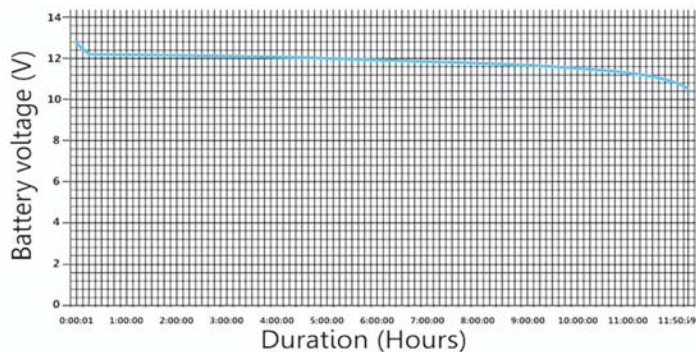
CHARGE CHARACTERISTICS GRAPH



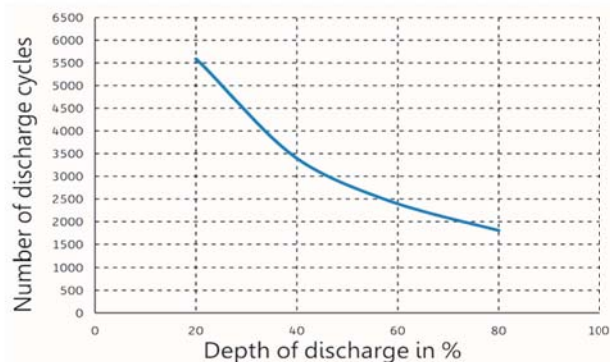
TEMPERATURE VS CAPACITY



DISCHARGE CHARACTERISTICS GRAPH



CYCLE LIFE VS DOD OF ASPIRO SERIE

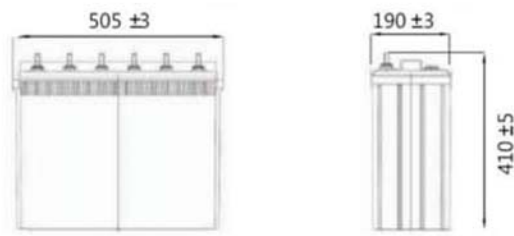


MAINTENANCE AND CAUTIONS

- 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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