SSB DRY CELL

Dual Purpose AGM Deep-Cycle/Starting

HVT-180D

Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	180.0AH	
Dimension	Length	532±2mm (20.94 inches)
	Width	207±2mm (8.15 inches)
	Container Height	214±2mm (8.43 inches)
	Total Height (with Terminal)	220±2mm (8.66 inches)
Approx Weight	Approx 52.8 Kg	
Terminal	T11	
Container Material	ABS	
Rated Capacity	193.0 AH/9.65A	(20hr ,1.80V/cell,25°C/77°F)
	180.0AH/18.0A	(10hr,1.80V/cell,25°C/77°F)
	158.0AH/31.6A	(5hr,1.75V/cell,25°C/77°F)
	140.7AH/46.9A	(3hr,1.75V/cell,25°C/77°F)
	116.3AH/116.3A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1800A (5s)	
Internal Resistance	Approx 3.0mΩ	
Operating Temp.Range	Discharge : -15～50°C (5～122°F)	
	Charge : 0～40°C (32～104°F)	
	Storage : -15～40°C (5～104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 54.0A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	SSB DryCell series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- *Electric tools*
- *Vehicle in place of walking*
- *Lawn mowers*
- *Golf trolleys and golf cart*
- *Portable apparatus, lights and instruments;*
- *Electric toys*
- *Illumination light*
- *Fire alarms*
- *Portable power*
- *Wheelchairs*
- *Medical equipments.*

VdS · Intertek ETL SEMKO MH26866 · ISO14001 · ISO9001 · CE EMC tested

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	229.0	200.2	176.0	141.8	107.8	89.9	55.8	41.6	33.7	28.7	25.0	20.4	17.0	9.56
1.80V/cell	281.9	230.4	199.3	157.7	123.1	100.7	60.9	45.2	36.5	30.8	26.8	21.6	18.0	9.65
1.75V/cell	327.2	261.4	219.2	170.3	129.6	105.3	63.2	46.9	37.7	31.6	27.5	22.0	18.2	9.74
1.70V/cell	353.2	279.4	234.4	178.6	133.7	108.6	65.7	48.2	38.6	32.4	28.1	22.3	18.4	9.92
1.65V/cell	381.2	295.2	244.6	185.4	139.2	112.3	67.5	49.5	39.5	33.3	28.7	22.7	18.7	10.0
1.60V/cell	412.6	313.9	258.7	194.4	145.0	116.3	69.8	50.8	40.4	34.0	29.4	22.9	18.9	10.1

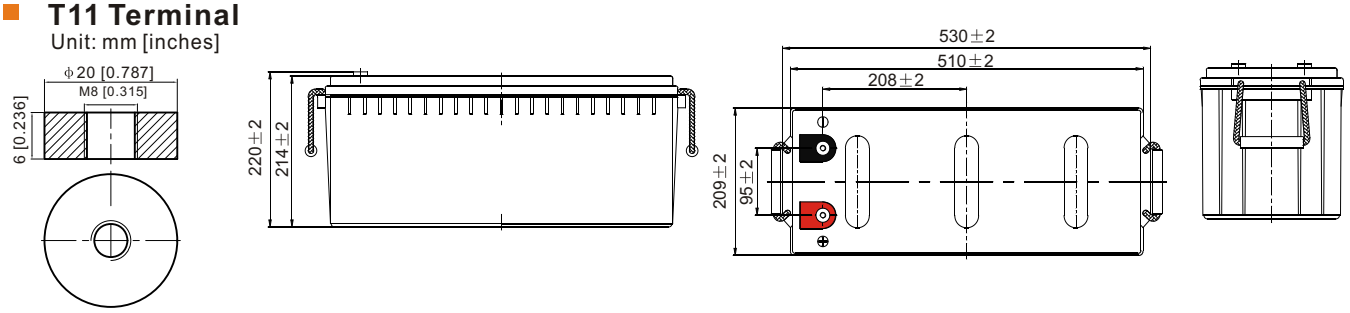
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	427.2	377.4	335.5	272.6	208.5	174.5	108.8	81.4	66.0	56.3	49.4	40.4	33.7	19.1
1.80V/cell	518.9	427.9	374.0	299.3	236.2	194.3	118.0	87.8	71.1	60.2	52.8	42.8	35.6	19.3
1.75V/cell	595.0	480.8	408.1	321.7	247.5	202.5	122.1	91.0	73.3	61.7	54.1	43.5	36.0	19.4
1.70V/cell	633.2	510.1	433.8	336.0	254.5	208.3	126.6	93.2	74.9	63.1	55.2	44.0	36.3	19.8
1.65V/cell	678.6	535.5	450.6	347.3	264.1	214.6	129.8	95.5	76.4	64.8	56.3	44.7	37.0	20.0
1.60V/cell	722.0	562.7	471.6	360.6	272.5	220.4	133.3	97.4	77.8	65.9	57.4	45.0	37.4	20.1

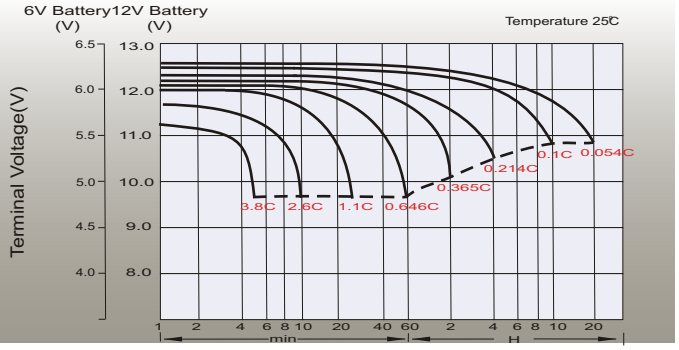
Dimensions

T11 Terminal

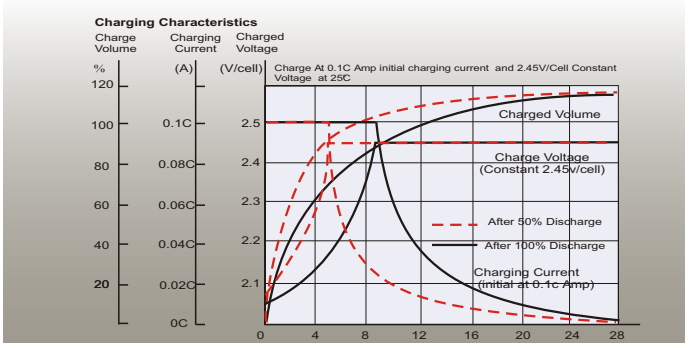
Unit: mm [inches]



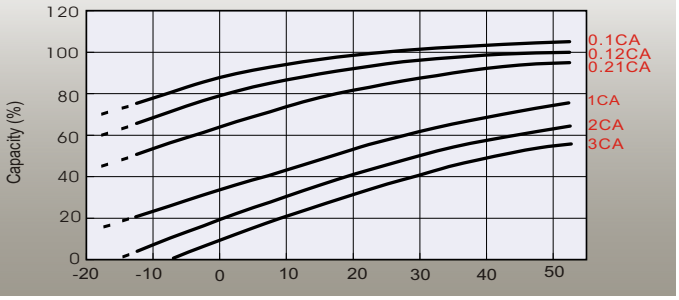
Discharge Characteristics



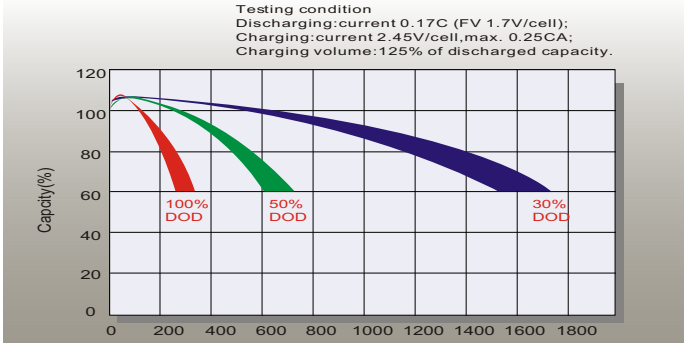
Charging Characteristics (cycle use)

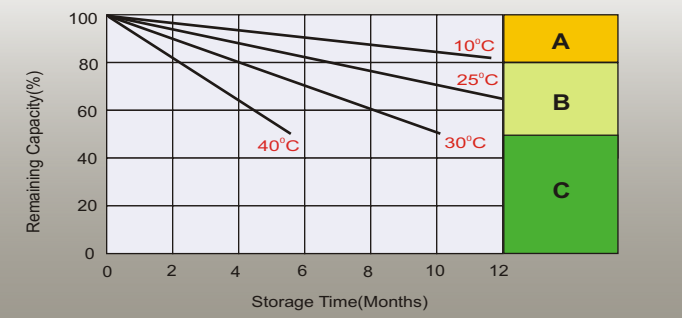


Temperature Effects in Relation to Batter Capacity



Cycle Life in Relation to Depth of Discharge





Self Discharge Characteristics

A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Head Office

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