SSB DRY CELL

Dual Purpose AGM Deep-Cycle/Starting

HVT-86D

Specifications

Nominal Voltage (V)	12 Volts	
Cold Cranking Amps (CCA)	1000 CCA	
Reserve Capacity (Min)	310 Minutes	
Nominal Capacity (20Hr)	130 Ah	
Dimensions	Length	330 ± 2mm
	Width	173 ± 2mm
	Container Height	212 ± 2mm
	Total Height (with Terminal)	240 ± 2mm
Approx Weight	Approx 31.4 Kg	
Terminal Type/Torque	T11 @ 14.6N.m	
Container Material	ABS Fire Retardant	
Rated Capacity	130.0 Ah/-A	(20hr, 1.80V/cell, 25°C)
	113.0 Ah/-A	(10hr, 1.80V/cell, 25°C)
	98.5 Ah/-A	(5hr, 1.75V/cell, 25°C)
	89.4 Ah/-A	(3hr, 1.75V/cell, 25°C)
	72.7 Ah/-A	(1hr, 1.60V/cell, 25°C)
Max. Discharge Current (5s)	1100A	
Internal Resistance	Approx 4.5m Ohm	
Operating Temp. Range	Discharge : -15 ~ 50°C	
	Charge : 0 ~ 40°C	
	Storage : -15 ~ 40°C	
Nominal Operating Temp. Range	-15 ~ 60°C	
Cycle Use	Initial Charging Current less than 36.0 A	
	Voltage 14.4V~15.0V at 25°C	
	Temp. Coefficient - 30mV/°C	
Standby Use	No limit on Initial Charging Current	
	Voltage 13.5V~13.8V at 25°C	
	Temp. Coefficient - 20mV/°C	
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Warranty	3 Years	
Design Life	5 - 7 Years	

Applications

- Marine
- Caravans & Motorhomes
- Trucks & Earth Moving Equipment
- Portable Apparatus
- Lights & Instruments
- Illumination Lights
- Fire Alarms
- Portable Power
- Medical Equipment

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

Self Discharge

SSB DryCell series batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	164.7	138.6	121.1	87.1	69.2	56.2	34.9	27.2	22.0	17.9	15.6	12.7	10.6	6.41
1.80V/cell	210.5	167.5	143.2	102.8	80.5	62.9	38.1	29.3	23.5	19.2	16.8	13.5	11.3	6.50
1.75V/cell	231.3	182.9	154.0	106.8	83.5	65.8	39.5	29.8	24.1	19.7	17.2	13.8	11.3	6.59
1.70V/cell	252.1	195.3	161.8	111.1	86.9	67.9	41.1	30.6	24.7	20.2	17.6	13.9	11.5	6.63
1.65V/cell	272.0	207.7	171.9	117.2	89.0	70.2	42.2	32.0	25.5	20.8	18.0	14.2	11.7	6.70
1.60V/cell	295.3	222.1	183.2	123.8	92.8	72.7	43.6	32.9	26.3	21.5	18.3	14.3	11.8	6.74

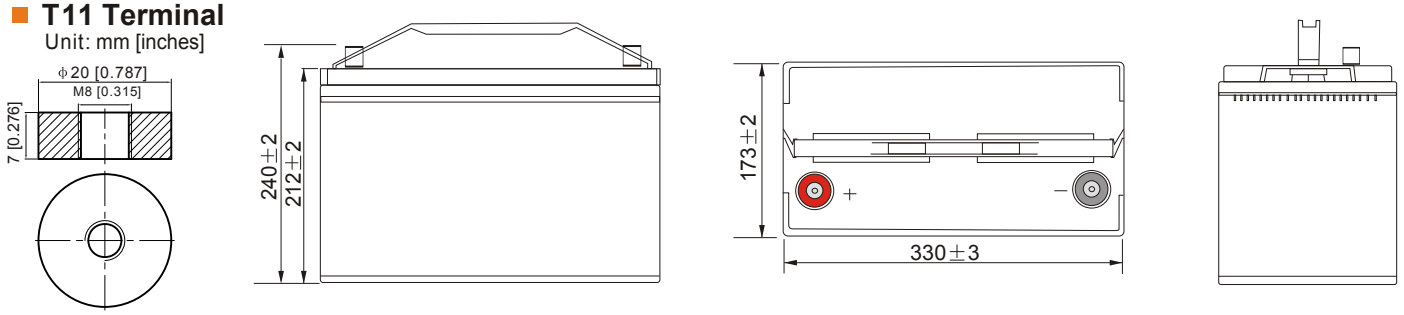
Constant Power Discharge (Watts) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	307.3	261.3	230.8	167.5	69.2	109.0	68.0	53.2	43.2	35.2	30.9	25.2	21.0	13.0
1.80V/cell	387.4	311.0	268.7	195.2	80.5	121.4	73.8	56.9	45.9	37.6	33.0	26.7	22.3	13.0
1.75V/cell	420.5	336.5	286.6	201.7	83.5	126.5	76.3	57.8	46.8	38.6	33.8	27.2	22.5	13.1
1.70V/cell	451.9	356.6	299.5	209.1	86.9	130.2	79.1	59.3	47.9	39.4	34.5	27.5	22.7	13.4
1.65V/cell	484.2	376.7	316.7	219.6	89.0	134.1	81.1	61.6	49.5	40.5	35.2	27.9	23.1	13.5
1.60V/cell	516.8	398.0	333.9	229.5	92.8	137.8	83.3	63.2	50.8	41.6	35.9	28.1	23.4	13.6

Dimensions

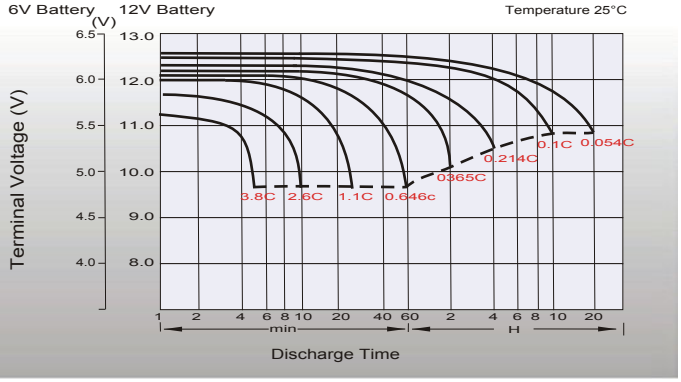
T11 Terminal

Unit: mm [inches]

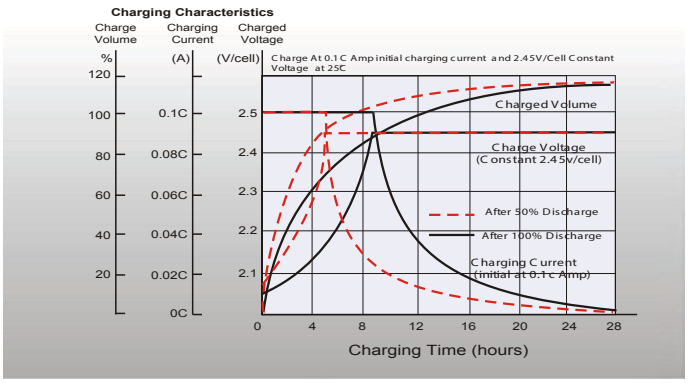


Performance Curves

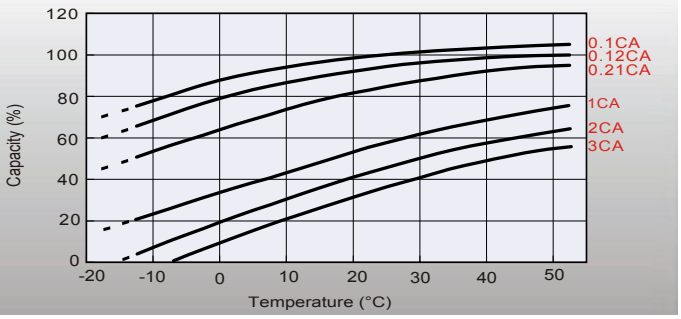
Discharge Characteristics



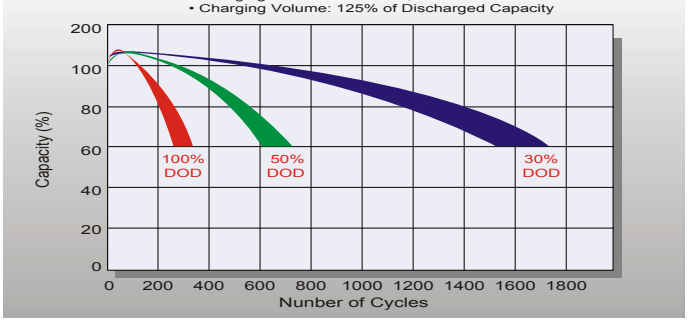
Charging Characteristics (Cycle Use)

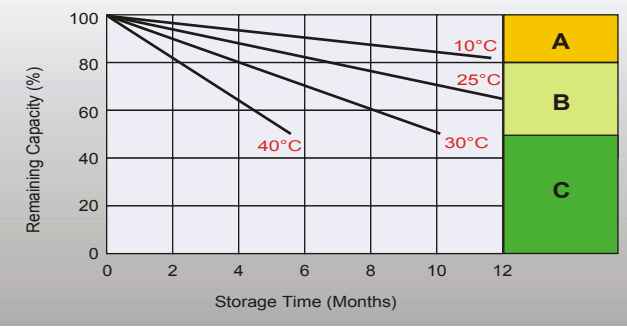


Temperature Effects in Relation to Battery Capacity



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 shown below:
1. Charged for over 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for over 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8-10 hours at limited 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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