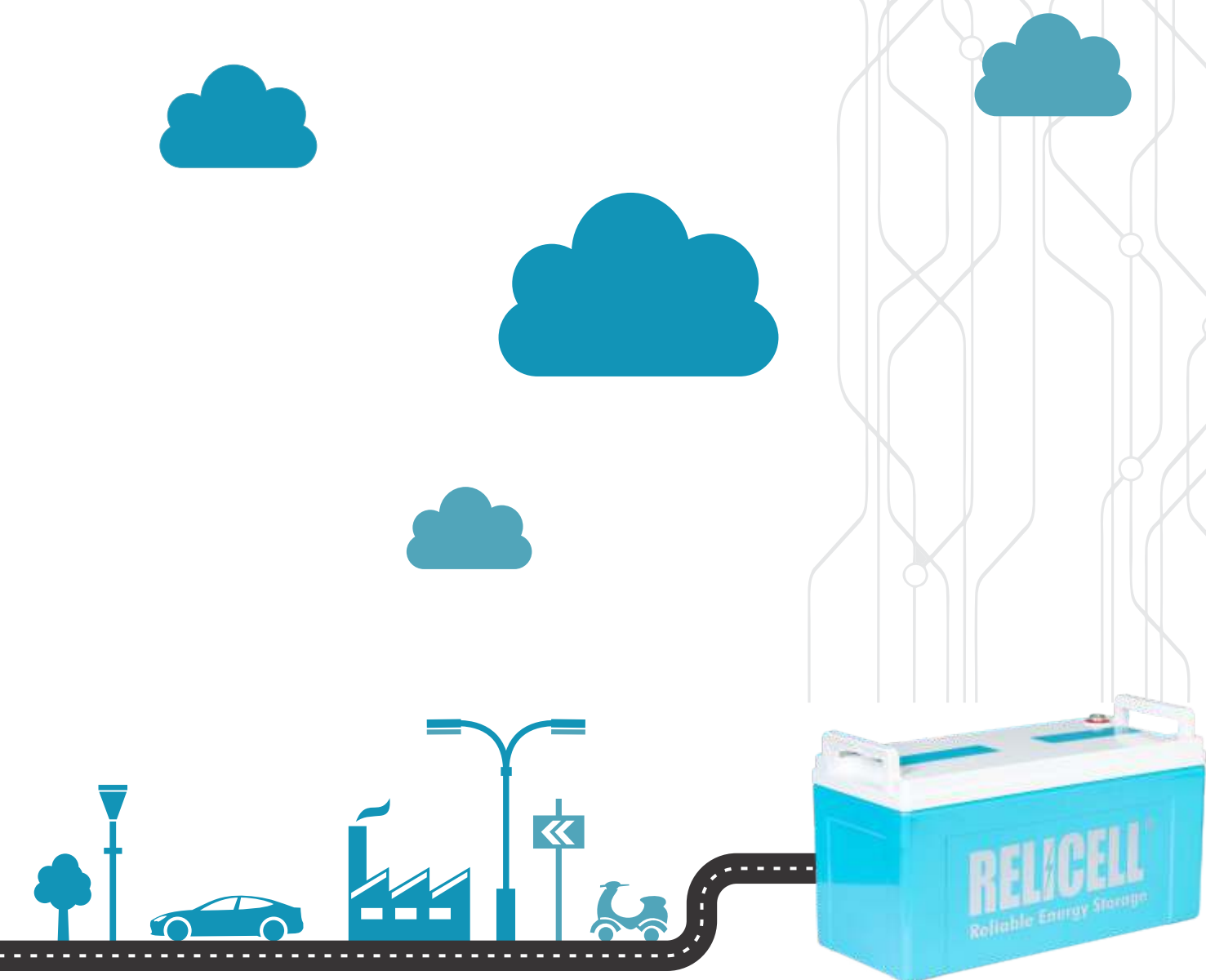




AGM VRLA

NON-SPILLABLE, SEALED LEAD ACID BATTERY



Relicell AGM VRLA Series

Description

Relicell AGM VRLA batteries are high quality, maintenance-free batteries produced at a state-of-the-art manufacturing facility with advanced battery manufacturing technologies and high purity materials. It has a long float and cyclic life span, high specific energy, and low self-discharge rate. Completely leak-proof, it has excellent anti-corrosion properties and performs flawlessly in varying temperature conditions.

Relicell AGM VRLA batteries have a design life ranging from 5 to 10 years and is backed by standard warranties depending on the model.

Features

- Design life of 5 to 10 years at 27°C, depending on the model
- Superior Lead Calcium alloy grid with high density active materials
- Excellent cyclic performance and recovery after over-discharging
- High purity material ensuring low self-discharge
- Valve regulated (sealed) construction for sales operation in any position
- Tank formed plates optimise cell voltage balance and performance
- Completely leak-proof and maintenance-free
- Compact design with high power to power ratio
- High impact ABS casing

Applications



UPS backup



Emergency lighting



Tele-communications power supply



DC power supply



Electronic weighing machines



Railway signalling systems



Network communication equipments



Medical equipments

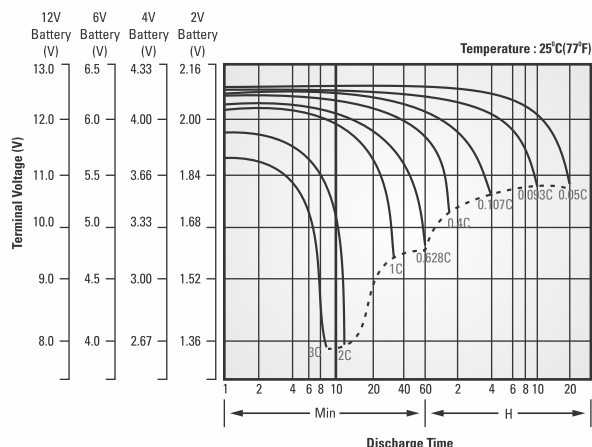


Power station systems

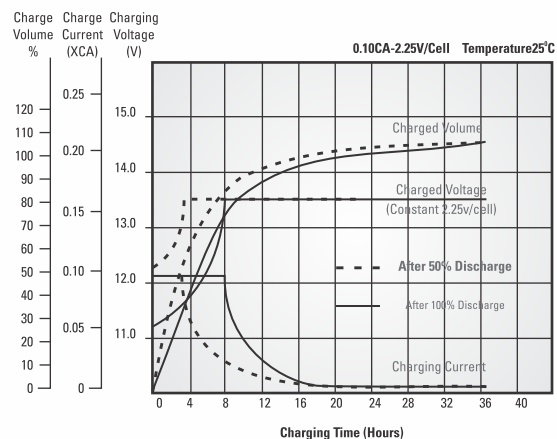
Available Range: 12V 6.5AH to 12V 240AH

Electrical Performance

Discharge Characteristics

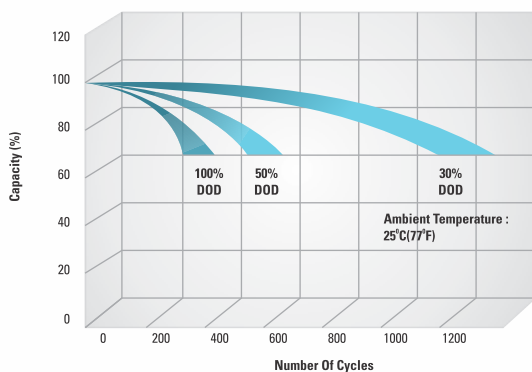


Float Charging Characteristics

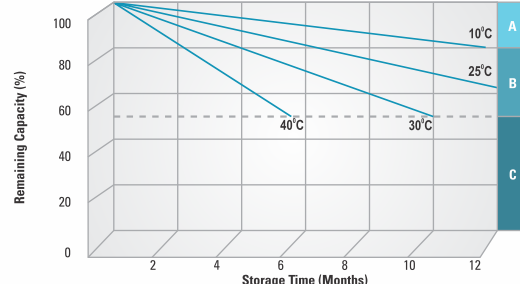


Cycle Life in Relation to Depth of Discharge

Testing Condition
Temperature : 25°C
Discharging : $3.4 \times I_{10}$ for 3 hours.
Charging : $6 \times I_{10}$ for 16 hours at 14.1V.



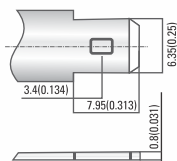
Self Discharge Characteristics



- 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. Charge for 16-20 hours at $0.065C_{10}$ at constant voltage 2.3 V/Cell
2. Charge for 30-36 hours at $0.05C_{10}$ at constant voltage 2.35 V/Cell
- C** Supplementary Charge may often fail to recover the capacity
The battery should never be left standing till this is reached

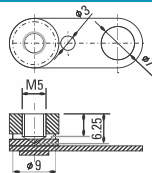
Battery Terminal Options

Terminal Type : F2



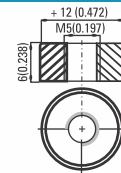
Faston Type (Brass) Quick Disconnect Tabs; Silver Coating For Better Conductivity.

Terminal Type : T4



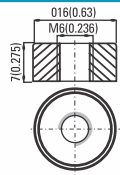
Brass Coated With Tin. Threaded Insert Torque : 3.0 N*m

Terminal Type : T5



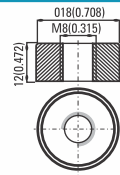
Brass Coated With Tin. Threaded Insert 5mm Stud. Torque : 3.0 N*m

Terminal Type : T6



Brass Coated With Tin. Threaded Insert 6mm Stud. Torque : 5.2 N*m

Terminal Type : T8



Brass Coated With Tin. Threaded Insert 8mm Stud. Torque : 12.5 N*m

General Technical Particulars of SSP & SP Series VRLA AGM Battery Models

Model	Capacity (AH) at 27°C					HRD 0.5 hr	Dimensions (mm) ± 3mm				Normal Charging Current (A)	Short Circuit Current (A)	Internal Resistance (mΩ)	Battery Weight (Kg) ± 3%	Terminal Type
	20 hr 10.5V	10 hr 10.5V	5 hr 10.5V	3 hr 10.5V	1 hr 10.2V	Amperes 9.6V	Length	Width	Height	Total Height					
SSP12-6.5	6.50	6.05	5.53	4.88	3.90	6.50	151.50	65.00	94.00	100.00	0.65	97.50	30.00	2.00	F2
SSP12-7	7.00	6.51	5.95	5.25	4.20	7.00	151.50	65.00	94.00	100.00	0.70	105.00	30.00	2.15	F2
SSP12-7.5	7.50	6.98	6.38	5.63	4.50	7.50	151.50	65.00	94.00	100.00	0.75	112.00	30.00	2.35	F2
SSP12-9	9.00	8.37	7.65	6.75	5.40	9.00	151.50	65.00	94.00	100.00	0.90	135.00	19.00	2.55	F2
SSP12-10	10.00	9.30	8.50	7.50	6.00	10.00	151.00	98.00	94.50	100.00	1.00	150.00	15.00	3.35	F2
SSP12-12	12.00	11.16	10.20	9.00	7.20	12.00	151.00	98.00	94.50	100.00	1.20	180.00	15.00	3.55	F2
SSP12-18	18.00	16.74	15.30	13.50	10.80	18.00	180.00	77.00	172.00	172.00	1.80	270.00	14.00	6.00	T4
SP12-26	26.00	24.18	22.10	19.50	15.60	26.00	166.00	176.00	125.00	125.00	2.60	390.00	14.00	8.45	T5
SP12-42	42.00	39.06	35.70	31.50	25.20	42.00	197.00	165.00	179.00	179.00	4.20	630.00	13.00	13.40	T6
SP12-45	45.00	41.85	38.25	33.75	27.00	45.00	197.00	165.00	179.00	179.00	4.50	675.00	13.00	14.50	T6
SP12-55	55.00	51.15	46.75	41.25	33.00	55.00	349.00	167.00	190.00	192.00	5.50	825.00	11.00	19.50	T6
SP12-65	65.00	60.45	55.25	48.75	39.00	65.00	349.00	167.00	190.00	192.00	6.50	975.00	11.00	21.90	T6
SP12-75	75.00	69.75	63.75	56.25	45.00	75.00	349.00	167.00	190.00	192.00	7.50	1125.00	11.00	23.50	T6
SP12-90	90.00	83.70	76.50	67.50	54.00	90.00	331.00	173.00	223.00	225.00	9.00	1350.00	9.00	28.90	T6
SP12-100	100.00	93.00	85.00	75.00	60.00	100.00	331.00	173.00	223.00	225.00	10.00	1500.00	5.30	30.00	T6
SP12-120	120.00	111.60	102.00	90.00	72.00	120.00	405.00	172.00	226.00	226.00	12.00	1800.00	4.00	37.20	T8
SP12-130	130.00	120.90	110.50	97.50	78.00	130.00	485.00	170.00	242.00	242.00	13.00	1950.00	4.00	40.40	T8
SP12-150	150.00	139.50	127.50	112.50	90.00	150.00	485.00	170.00	242.00	242.00	15.00	2250.00	3.60	43.70	T8
SP12-165	165.00	153.45	140.25	123.75	99.00	165.00	485.00	170.00	242.00	242.00	16.50	2475.00	3.60	48.50	T8
SP12-200	200.00	186.00	170.00	150.00	120.00	200.00	522.00	238.00	219.00	225.00	20.00	3000.00	3.60	60.00	T8
SP12-220	220.00	204.60	187.00	165.00	132.00	220.00	522.00	238.00	219.00	225.00	22.00	3300.00	3.00	63.00	T8
SP12-240	240.00	223.20	204.00	180.00	144.00	240.00	522.00	238.00	219.00	225.00	24.00	3600.00	3.00	66.00	T8

*Specifications are under continuous improvement. Subject to change without notice.

Complied Standards



- JISC8702-Part1&2:2009
- IS15549:2005

RELICELL®
Reliable Energy Storage

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