



SMF Sealed Maintenance Free Battery



DURASOL®
Energi

JUMBO CELL
JC-100 (12V 100Ah)

DEEP CYCLE SEALED
MAINTENANCE FREE BATTERY

Constant Voltage Charge

	CYCLE USE	STANDBY USE
VOLTAGE REGULATION	14.6-14.8V(25°C)	13.6-13.8 V(25°C)
INITIAL CURRENT		

Made in India



Sealed Lead Acid Battery must be recycled or disposed off as per Battery Management & Handling Rules.

Features:

- Compact Design for Power to Power Ratio.
- High Deep Cycle Recovery Capability.
- Robust & Aesthetically Robust Design.
- Effective & Reliable Performance under Float and Cyclic Application.



Introduction of Company

Let's improve the quality of life!

From a modest start in early 2000 we invested a lot of time, effort and money solving the customer's problem in the areas of electricity. Today we can't imagine life without electricity. We always strive to offer a solution to our customers which can bring brightness and smiles in their life. After successfully developing market, customer awareness and establishing a few brands in more than 30 countries and having focus on green energy, we have been engaged in the areas of energy storage, renewable energy, storage products and electrical solution.

The backbone of the company are-

- Having 3 state-of-the-art manufacturing facilities in North of India.
- Total Installed capacities of all the batteries are more than 1 million a year.
- Leading supplier of private label brands from India.
- Products approved for Saber Saleem (SASO), SONCAP by SGS and Intertek, CBCA by BIVAC.
- Products complied for JIS 8702-1:2009, IEC 60086, IEC 60896-22:2004.

AGM VRLA SERIES

DURASOL AGM VRLA batteries are high quality, maintenance-free batteries produced at 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.

DURASOL AGM VRLA batteries have a design life ranging from 5 to 10 years and are backed by standard warranties depending on the models.

Salient Features

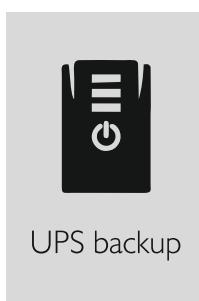
- Design life of 5 to 10 years at 27°C, depending on the model
- Superior Lead Calcium alloy grid with high density active materials
- Excellent cyclic performance and recovery after over-discharging
- High purity material ensuring low self-discharge
- Valve regulated (sealed) construction for safe operation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

DEEP CYCLE SEALED MAINTENANCE FREE BATTERY

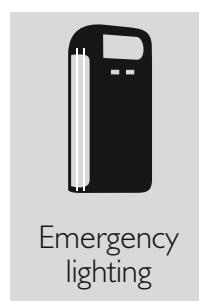


Features

Applications



UPS backup



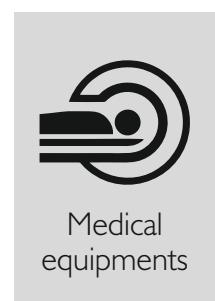
Emergency lighting



Tele-
communications
power supply



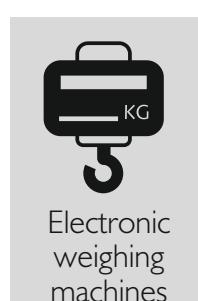
Railway
signaling systems



Medical
equipments



DC power
supply



Electronic
weighing
machines

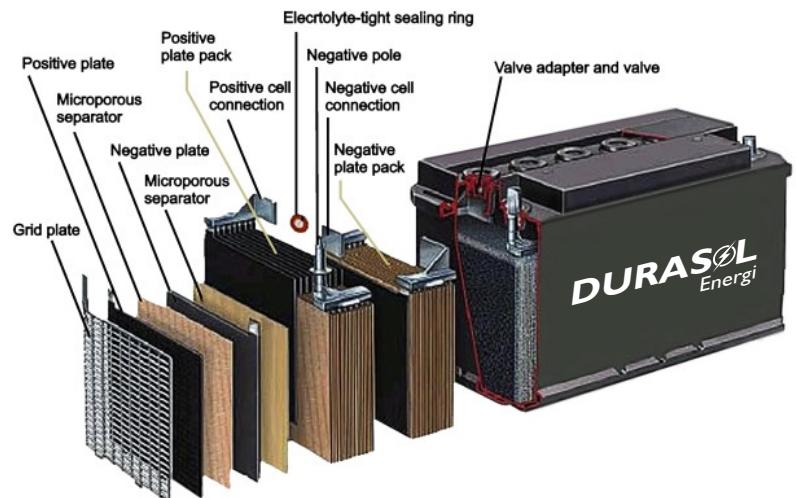


Power station
systems



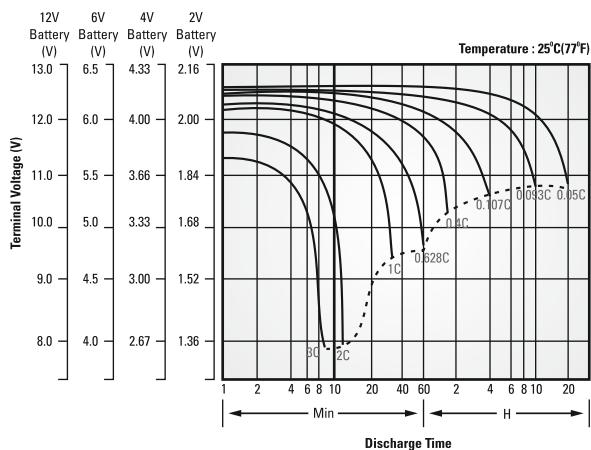
Network
communication
equipments

Cross Section View

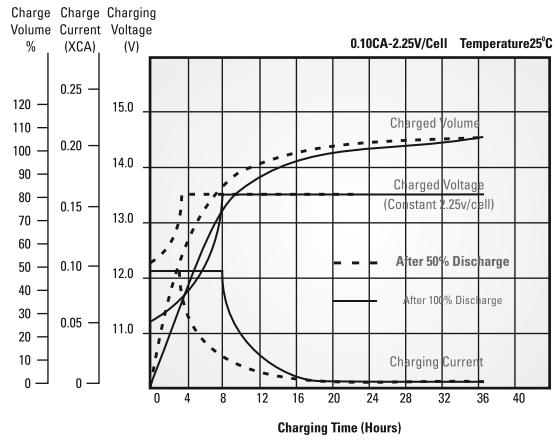


Electrical Performance

Discharge Characteristics

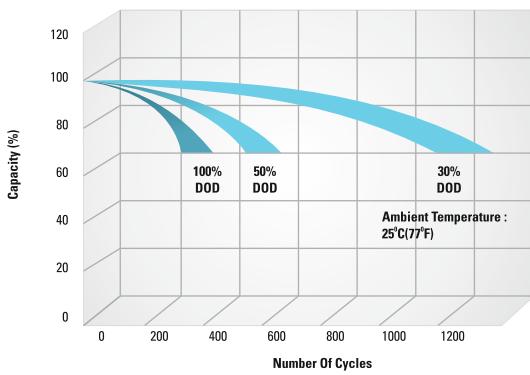


Float Charging Characteristics

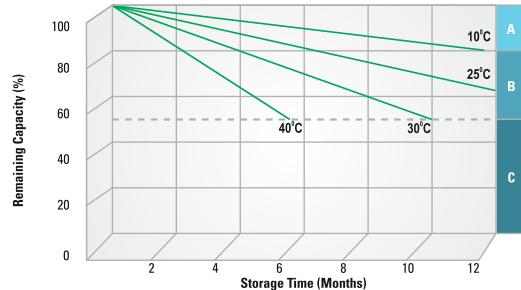


Cycle Life in Relation to Depth of Discharge

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



Self Discharge Characteristics



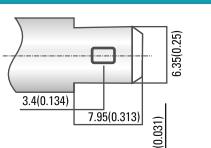
A No Supplementary Charge required
(Carry out supplementary charge before use if 100% capacity is required)

B Supplementary Charge required before use. Optional charging way as below:
1. Charge for 16~20 hours at $0.065C_m$ at constant voltage 2.3 V/Cell
2. Charge for 30~36 hours at $0.05C_m$ 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

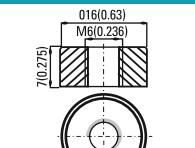
Battery Terminal Options

Terminal Type : F2



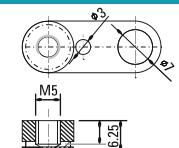
Faston Type (Brass) Quick Disconnect Tabs; Silver Coating For Better Conductivity.

Terminal Type : T6



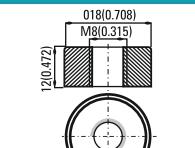
Brass Coated With Tin.
Threaded Insert
6mm Stud.
Torque : 5.2 N·m

Terminal Type : T4



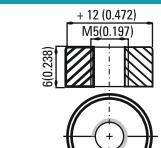
Brass Coated With Tin.
Threaded Insert
8mm Stud.
Torque : 3.0 N·m

Terminal Type : T8



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

Terminal Type : T5



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

Technical Specifications

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		Length	Width	Height	Total Height					
DU12-7	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
DU12-7.5	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
DU12-9	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
DU12-10	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
DU12-12	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
DU12-18	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
DU12-26	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
DU12-42	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
DU12-45	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
DU12-55	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
DU12-65	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
DU12-75	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
DU12-90	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
DU12-100	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
DU12-120	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
DU12-130	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
DU12-150	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
DU12-165	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
DU12-200	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
DU12-220	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
DU12-240	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

OUR COMPLETE RANGE OF POWER SOLUTIONS

