



**EXIDE
INDUSTRIAL**

GEL TUBULAR VRLA BATTERIES



Exide Industries Limited is the largest storage battery manufacturer in the country and has pioneered battery technology in India for over 70 years. Exide now offers its latest series of Gel Tubular VRLA batteries in high grade pure polypropylene co-polymer container for critical standby application in arduous condition.

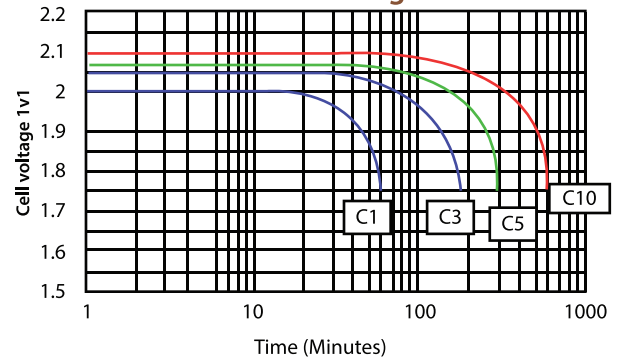
APPLICATIONS • Metro Railways • Telecommunication • Solar • Data Centre • Substations • UPS System • Power Plant • Oil & Gas Pipelines

UNIQUE FEATURES	USER BENEFITS
1) Positive Plate Robust Torr Tubular spine with low maintenance Pb-Ca-Sn alloy	1) Rugged, reliable and maintenance-free standby power
2) Negative Plate: Pb-Ca-Sn alloy grid providing low corrosion and maintenance free characteristics	2) Suitable for frequent discharge-charge cycles power
3) Separator: Micro-porous and resin based separators with high porosity and low electrical resistance	3) Can safely be used in high ambient temperature zone
4) Electrolyte: Sulphuric acid in immobilized gelled form specially made by mixing thixotropic inert additives	4) Very low self discharge
5) Container and Lid: Made of high grade polypropylene co-polymer material	5) Very low foot-print
6) Valve: Flame arresting vent plug housing long life rubber safety valve-explosion proof, self resealing and pressure regulating type	6) No acid stratification
7) Terminal: Specially designed for sustained high current discharges	7) Practically emission free
8) Connector: Lead coated solid copper connector with insulating shroud/top cover	8) Supplied factory charged, ready to use
9) 2V cells are housed in stackable MS modules (8V)	9) Designed for long life
10) 2V cells can be supplied in MS cabinet also (fitted with suitable exhaust system) in 48 V configuration on demand- ideal for outdoor applications	10) Modular design ensures easy handling and installation. Sealed construction allows using any orientation

Technical Data

Type of Battery	Nominal Voltage (V)	Capacity @ 10 hr/1.75V (Ah)	Weight (Kg) ±5%	Module Dimension (8 V) (With Top Cover/ Shroud)		
				L(mm)±5	D(mm)±5	H (mm)±5
PG 200	2	200	101	730	468	212
PG 300	2	300	121	730	517	212
PG 400	2	400	133	730	517	212
PG 500	2	500	157	730	517	212
PG 600	2	600	181	730	520	260

Performance Curves at Different Rates of Discharge



Commissioning Charge

When commissioning a new battery (first charge), follow procedure a) or b) Procedure a) is recommended.

a) IU method (boost charge):

At a raised voltage of 2.33-2.40 vpc. the charging time will be 12 to 24 hours depending on the initial charge condition. The current must be limited to 0.2C10

Boost charging must be switched off or switched over to float charging as soon as the fully charged state is reached.

b) Float charge:

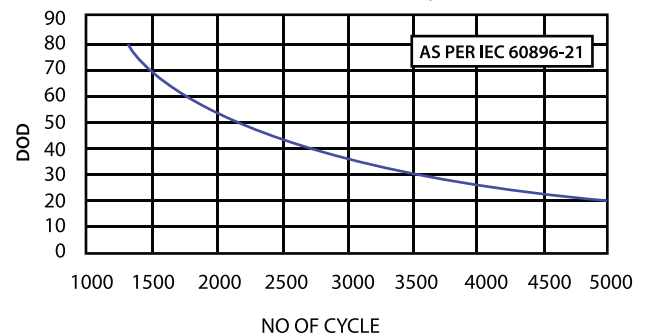
With a voltage of 2.27 vpc, full capacity will be obtained after a longer period of 4 to 6 weeks depending on the state of charge.

Charging Characteristics During Operations:

Parameter	Recommended	Min. Requirement
Float Voltage	2.27 VPC	2.27 VPC
Boost Voltage	2.4 VPC	2.35 VPC
Equalizing Voltage	2.3 VPC	NA
Recharge Factor	105% of discharge Ah	105% of discharge Ah
Charging Current	0.2C amps	0.06 C amps.

C: Nominal 10hr. capacity of the battery at 27°C

DOD Vs No. of Cycle



- Spines cast in HADI machine at 100 Bar
- Higher reliability. Longer life



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