

**EXIDE**

# GEL TUBULAR VRLA BATTERIES



**INDUSTRIAL**

Exide Industries Limited is the largest storage battery manufacturer in the country and has pioneered battery technology in India for over 65 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 ultra low maintenance Pb-Ca-Sn alloy.	1) Rugged, reliable and maintenance-free standby power.
2) Negative Plate: Pb-Ca alloy grid providing low corrosion and maintenance free characteristics.	2) Suitable for frequent discharge-charge cycles
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 pure 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 48V configuration on demand — ideal for outdoor applications.	10) Modular design ensures easy handling and installation. Sealed construction allows using in any orientation.

### Technical Data

Battery Type	Nominal Voltage	Capacity @10hr (1.75V)	Module Dimension (8)			Cell Per Module	Module with cell weight in Kg ± 5%
			L ± 5	W ± 5	D ± 5		
PG 200	2	200	709	268	343	8	126
PG 300	2	300	717	214	510	4	115
PG 400	2	400	717	214	510	4	124
PG 500	2	500	717	214	510	4	143
PG 600	2	600	717	262	502	4	179
PG 800	2	800	386	262	677	2	125
PG 1000	2	1000	386	278	665	2	143

### 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:

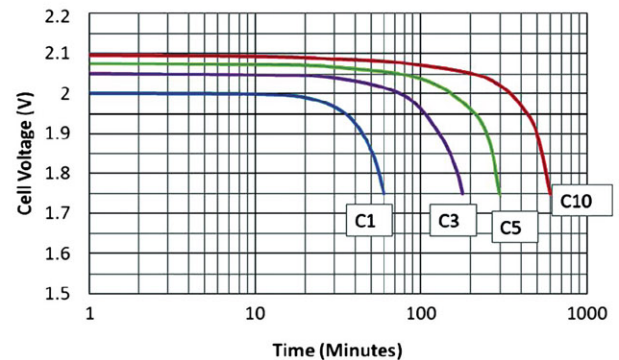
With a voltage of 2.27 vpc. Full capacity will be obtained after a longer period of 4 to 6 weeks depending on state of charge.

### Charging Characteristics during operations:

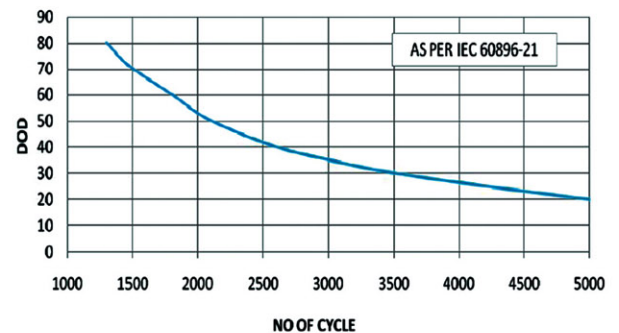
Parameter	Recommended	Min. Requirement
Float Voltage	2.27 VPC	2.27 VPC
Boost Voltage	2.4 VPC	2.35 VPC
Equalizing Voltage	2.3 VPC	NA
Recharge factor	105% of discharge Ah	105% of discharge Ah
Charging Current	0.2 C amps.	0.06 C amps.

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

### Performance Curves at Different Rates of Discharge



### DOD Vs No. of Cycle



Go For **TORR TUBULAR**®  
 ● Spines cast in HADI machine at 100 Bar  
 ● Higher reliability, longer life

**EXIDE**

\*Applied for

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