

GEM™

BATTERY | INVERTER | UPS | SOLAR PCU

amrag™
Solely Dedicated to Renewable Energy

with **ELDC**
GERMAN TECHNOLOGY



MNRE Tested



- Designed for Solar Application
- Low Maintenance
- Extended Life



Ministry of New and Renewable Energy
Government of India



INTERNATIONAL CERTIFICATIONS

EXPORT ONLY

PRODUCT FEATURE :

- Available in SOLA-TUBULAR range
- PPCP Container
- Tubular Positive Plates
- Pasted Negative Plates
- High porosity Envelope Separators
- Microporous Ceramic Vent Plug
- High tensile, acid resistant Polyester Gauntlets
- Low resistance Fasteners.
- Heavy duty Terminal

TUBULAR TECHNOLOGY:

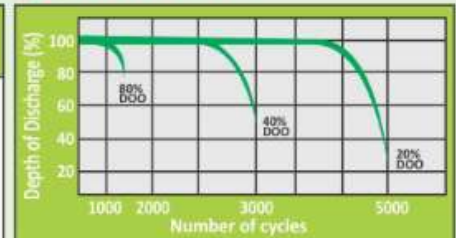
GEM Tubular Batteries have the spines or the positive plate support cast at high pressure (100 Bar) in imported HADI machine which ensures void free structure and consistent grain orientation and can protect the plate support from anodic corrosion. This in turn ensures higher reliability and longer life. GEM Tubular plates are also cast with low antimony content which reduces the topping up frequency, making the battery low maintenance type. This also keeps the float charging current at a lower value, thus minimises the total energy requirement needed to keep the battery in charged condition during standby float application.

BENIFITS:

- Specially Designed For arduous SPV application
- Manufacturing with Tubular Technology which stands for reliable and consistent performance
- Designed to operate in partial state of charge condition.
- Ideally designed for cyclic application.
- Superior voltage and energy output profile.
- Excellent charging efficiency:
 - AH efficiency - In excess of 90%
 - WH efficiency - In excess of 80%
- Service life comparable with the best of the international Brands.
- Designed cycle life at C10 discharge at 25°C:
 - 1500 cycle to 80% DOD
 - 3000 cycles to 50% DOD
 - 5000 cycles to 20% DOD
- Supplied in factory charged condition - ensures optimal quality and ready to us.
- Ultra low maintenance
- Low rate of self discharge
- 6V mono-blocks are supplied with Ms Cabinet (fitted suitable exhaust system) or MS Stand (knock down condition) in 48V configuration - ideally designed for outdoor application.

CHARGING CHARACTERISTICS OF SOLAR BATTERIES : CYCLE LIFE

Model of Operation	Voltage setting per mono-block unit for ambient temperature 25-30°C		Current Settings
	12V mono-block	6V mono-block	
Float Voltage	13.7V ± 0.1V	6.85V ± 0.1V	Maximum - 20% of battery Ah capacity
Bulk Voltage	14.5V ± 0.1V	7.25V ± 0.1V	Maximum - 10% of battery Ah capacity
Low Voltage Disconnect	11.1V ± 0.1V	5.55V ± 0.1V	



APPLICATION :

Solar Home Lighting

Solar Street Lighting

Solar Photovoltaic Power Plants

Taffic Signalling

TECHNICAL DATA:

Solar Batteries (IS)											
Battery Type	Spec	Capacity		Dimensions				Cell	Weight with Acid+Water	Terminal	Electrolyte
Battery Model		10 hr	5 hr	L	W	H	TH	Layout	Kg		Volume Itrs
GSTL 20	20 Ah	20	17	305	170	180	230	R	13.5	L - Type	6.4
GSTL 40	40 Ah	40	33	410	175	190	240	L	22.0	L - Type	9.6
GSTL 75	75 Ah	75	62	500	220	205	255	Layout 3	36.0	L - Type	15.3
GSTL 100	100 Ah	100	83	500	220	205	255	Layout 3	40.0	L - Type	17.0
GSTL 120	120 Ah	120	100	505	190	360	410	L	54.5	L - Type	21.0
GSTL 150	150 Ah	150	125	505	190	360	410	L	59.4	L - Type	19.8
GSTL 200	200 Ah	200	180	505	190	360	410	L	65.0	R - Type	21.0
GSTL 270	270 Ah	270	250	505	190	360	410	L	78.0	R - Type	24.0

Note: for export we can provide 25Ah & 55 Ah also.



Tamrag Green Solutions (India) Pvt. Ltd.

Sector-46, Nathupura Industrial Area, Sonapat, Haryana-131029
 Customer Care No.: +91 - 9891807890, 0130-6621080
 Website : www.gembatteries.com

Authorised Dealer :