Energising the whole world

Solar & Inverter Batteries

Global Battery Co. Ltd., South Korea
formerly known as Global & Yuasa Co. Ltd.
www.gbattery.com

Represented in India by:
Rocket Batteries (India) Pvt. Ltd.
www.rocketbatteries.co.in

Unlimited Power
ROCKET
Since 1952
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Introduction:

Global Battery Co. Ltd., South Korea have already proved their superior quality & have set international standards in the standby / back up power segment through their SMF (VRLA) batteries under the brand name Rocket since the last 25 years. It is pleasure for global to present Flat Plate & Tubular Stationary cells in 12v monoblock batteries for Inverter, Solar, and all cyclic applications. Further these tubular batteries are approved by MNRE (Ministry of New & Renewable Energy).

Presenting the Flat plate & Tubular batteries for Inverter & Solar applications with C-20 rating and cyclic use.

Flat Plate Batteries - POWER-ON series (C-20)

Battery Type Flat Plate	Capacity @ 20 Hr Rate (12 Volts)	Nominal Voltage (V)	Overall Dimensions (mm) up to terminal (Tolerance +/-5mm)			Battery weight	Approximate Acid quantity in litres
			L	W	H	Wet	
POWER-ON 110	110	12	515	180	255	30	7
POWER-ON 165	165	12	520	275	300	42	12
POWER-ON 190	190	12	520	275	300	55	16

Short Tubular Batteries - STB Series (C-20)

Battery Type Short Tubular	Capacity @ 20 Hr Rate (12 Volts)	Nominal Voltage (V)	Overall Dimensions (mm) up to terminal (Tolerance +/-5mm)			Battery weight	Approximate Acid quantity in litres
			L	W	H	Wet	
STB 100	100	12	520	275	280	43	16
STB 150	150	12	520	275	300	57	20
STB 180	180	12	520	275	300	61	19

Tall Tubular Batteries - TTB Series (C-20)

Battery Type Tall Tubular	Capacity @ 20 Hr Rate (12 Volts)	Nominal Voltage (V)	Overall Dimensions (mm) up to terminal (Tolerance +/-5mm)			Battery weight	Approximate Acid quantity in litres
			L	W	H	Wet	
TTB 100	100	12	505	190	410	52	22
TTB 150	150	12	510	190	410	59	21
TTB 200	200	12	510	190	410	65	17

Also presenting the industrial, UPS & Solar batteries with the C-10 battery ratings for deep discharge applications and high rate discharge applications.

Dimensions & Technical Data (C-10)

Battery Type	Capacity of C20 Rate	Capacity of C10 Rate	Overall Dimensions (mm) up to terminal (Tolerance +/-5mm)			Weight (Kgs) (Tolerance +/-5%)		Volume of Electrolyte (1.220 Sp.gr.) Per Battery	Initial charge at Constant Current	Initial Charge Minimum Ah input
			L	W	H*	Dry	Filled			
EST 20-12	25AH	20AH	260	173	235	8	14	5	1	75
EST 40-12	50AH	40AH	404	175	255	14	24	8	2	150
EST 60-12	75AH	60AH	404	175	255	20	30	8	3	225
EST 80-12	100AH	80AH	504	218	266	25	40	12	4	300
EST 100-12	120AH	100AH	504	218	266	31	46	12	5	375
EST 130-12	160AH	130AH	517	273	266	37	59	18	6.5	490
EST 150-12	180AH	150AH	517	273	266	40	62	16	7.5	565

*Height upto terminal

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Rocket presenting heat sealed range of Flat Plate & Tubular Stationary batteries for Inverter which are designed for deep cycling use in tropical conditions

BATTERY CONTAINERS / LIDS
Heat Sealed rugged Polypropylene leak proof Containers / Lids. Extra electrolyte above the plates which reduces battery maintenance.

P.E. SEPARATORS
Low internal resistance Polyethylene Envelope type separators with glass mat to enhance life of batteries by preventing internal short in between positive and negative electrodes.

TUBULAR GAUNTLETS
Tubular positive plates consisting of Alloy grids and properly balanced active material encased in Chlorine free Polyester Gauntlets of high bursting strength with High Performance (HP)

LEAD ALLOY
Specially mixed Selenium lead alloy used for plate grid casting, it greatly reduces topping up frequencies. (low maintenance)

BATTERY PLATES
Newly designed thick plates Technology; suitable for deep cycle applications of Inverters & Solar.

MICRO POROUS CERAMIC VENT PLUGS WITH FLOAT INDICATOR
Low water evaporation through vent holes and reduces the water loses.

General Characteristics

1.	Application Standards	IS 13369:1992
2.	Ampere Hour Efficiency	> 90%
3.	Watt Hour Efficiency	> 80%
4.	Self Discharge	Approx 1-2% of capacity declined per month 27°C
5.	Storage Period	Max. 3 months
6.	Electrolyte Specific Gravity of the fully charges battery	1.240+-0.005 at 27°C
7.	Electrolyte Specific Gravity of the end of discharge	1.130 Approx
8.	Short circuit current of the battery	10 times of the AH capacity
9.	Short circuit current withstand time	< 2 second

Initial Charging Instructions

1. Filing in Specific Gravity of Electrolyte: 1.220±0.005 at 27°C
2. Rest period after filling: 12 Hours
3. Duration of Initial charging: 75 Hours
4. Full charge status of battery indicate by:
   a) 3 Consecutive hourly reading of Specific gravity and Voltage towards end of initial charging remains constant
   b) Voltage at the end of charging: Minimum 15.6V
   c) Minimum AH input indicated has been given
   d) All cell gas freely
5. Specific Gravity at the end of full charge: 1.240±0.05 at 27°C

Subsequent or Normal Charging Instructions

Set the constant potential charge voltage to 14.4V and current limit as specified in UPS system. After battery terminal voltage reaches the set voltage, reduce the voltage to 13.8V for trickle charging.

Tips to Ensure Maximum Life

1. Avoid installing batteries in close proximity to heat generating source – Heat Kills batteries.
2. Provide adequate ventilation
3. Ensure air space (5 to 10 mm) in-between batteries for the purpose of cooling
4. Do not seep the batteries in discharged state
5. Ensure proper insulation when installing on steel stand by providing polyethylene or polypropylene sheet underneath each battery.

Salient Features

1. Leak proof design with heat sealed polypropylene (PP) container and cover.
2. Low internal resistance and increased performance.
3. Micro porous aqua-trapceramic float guide vent plug-environment friendly, free from acid fumes and minimizes and water loss.
4. Tubular positive plated with low antimony alloy to reduce frequency of topping-up intervals.
5. Special additives and expanders for better charge and discharge cycle.
6. Specially designed for long life in deep discharge cycle.
7 Superior active material for excellent discharge performance
8. Pure laboratory grade additives and chemical used for reliable output.

Statutory Notice

Used batteries pose a threat to our environment and should be managed properly for disposal. As per the battery (Management and Handling) rules 2001, it shall be the responsibility of the consumer to ensure that the batteries are not disposed off in any manner other than depositing with dealers / registered recyclers.

OUR BRANCHES

AHMEDABAD	CHENNAI	INDORE	LUCKNOW
BANGALURU	COIMBATORE	JAIPUR	PATNA
BHUBANESHWAR	DELHI	JAMSHEDPUR	PUNE
CHANDIGARH	GUWAHATI	KOLKATTA	SECUNDERABAD

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