

BATTERY SELECTION CHART

Load (Watts)	Inverter Rating	System Voltage	Recommended Battery Capacity for different Back-up time				
			5 Hrs	4 Hrs	3 Hrs	2 Hrs	1 Hrs
≤ 160 Watt	250 VA	12 V	RLTT100	RLTT100	RLTT100	RLTT100	RLTT100
161 - 240 Watt	350 VA		RLTT150	RLTT150	RLTT100	RLTT100	RLTT100
241 - 440 Watt	650 VA / 750 VA		RLTT180	RLTT150	RLTT150	RLTT100	RLTT100
441 - 600 Watt	850 VA / 900 VA		2P - RLTT150	RLTT220	RLTT200	RLTT180	RLTT150
601 - 700 Watt	1050 VA / 1100 VA		2P - RLTT180	2P - RLTT150	RLTT200	RLTT180	RLTT150
701 - 1000 Watt	1450 VA / 1500 VA		3P - RLTT220	2P - RLTT200	2P - RLTT150	RLTT200	RLTT150
≤ 1000 Watt	1450 VA / 1500 VA	24 V	2S * 2P - RLTT220	2S * 2P - RLTT180	2S - RLTT220	2S - RLTT180	2S - RLTT150

Note :

- Cut-Off voltage of inverter should be 10.5V
- S - Series connection; P - Parallel connection; e.g. 2S * 2P - A string containing 2 Nos. batteries in series and 2nos. such strings in parallel Consideration of Electrical
- Load details - 1 No. Fan = 80 Watt / 1 No. Tube light = 40 Watt

BASIC MAINTENANCE TIPS

DO's

- Ensure AC input plug is firmly connected to a three pole grounded mains socket. Connecting to other sockets may result in a shock hazard
- Keep the same in a dry and cool place preferably in a battery cabinet . Always keep the battery top dry and clean
- Ensure battery terminals are firmly tightened with the battery connecting cable from the inverter. The terminals and fasteners should be clean, dry and smeared with petroleum jelly
- Check the float level indicators of the cells once in two months. If the indicators are low, top up the cells with battery-grade distilled water or de-mineralised water

DON'T's

- Do not keep any object on top of the battery. Metallic objects may cause short-circuit between terminals
- Never short-circuit the negative and positive terminals
- Never take any open flame or cause any spark near the battery. This may cause an explosion
- Never add acid in the battery
- Avoid over discharging or over charging of the battery as this will significantly reduce performance and life of the battery.



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BATTERIES FOR INVERTER & SOLAR APPLICATION



ROOTS SOLAR BATTERY

- Rugged Performance
- Low Self Discharge
- More Electrolyte per Ampere Hour
- Ultra Low Maintenance
- High Temperature Performance



Roots Solar Batteries are C10 rated deep cycle batteries specially designed for use in solar systems to last longer and are rugged enough to be used in all weather conditions. Roots Solar batteries are highly stable, safe, durable and rechargeable for larger number of cycles and gives longer backup.

Model	Capacity @C10 Rating	Voltage	Warranty* (M)	Container Type	External Dimensions in mm (max)			Type	Gross Weight Kg. (±3%)
					Height (±3mm)	Width (±2mm)	Length (±3mm)		
SBT100A	100 AH	12 V	60	N150 J	286	212	508	Jumbo Tubular	45.20
SBT120A	120 AH	12 V	60	IT 500	410	190	505	Tall Tubular	57.00
SBT150A	150 AH	12 V	60	IT 500	410	190	505	Tall Tubular	61.54
SBT200A	200 AH	12 V	60	IT 500	410	190	505	Tall Tubular	69.54

* 60M free replacement warranty**

**Valid only if installed in solar application



ROOTS RL+ INVERTER BATTERY

- Ultra Low Maintenance
- More Backup
- High Cyclic Life
- High Pressure Spine Casting
- Thicker Tubular Plate Design
- More Electrolyte per Ampere Hour



Roots RL+ range Tall Tubular Inverter batteries are designed to operate in extreme climatic variations and frequent long power cuts. It is a perfect fit at an affordable price to match every budget. The batteries are constructed with rugged lead plates cast under high pressure to ensure that every battery performs flawlessly even in frequent and long power cuts.

Model	Capacity @C20 Rating	Voltage	Warranty* (M)	Container Type	External Dimensions in mm (max)			Type	Gross Weight Kg. (±3%)
					Height (±3mm)	Width (±2mm)	Length (±3mm)		
RLTT100	100 AH	12 V	24 + 24**	IT 500	410	190	505	Tall Tubular	50.34
RLTT150	150 AH	12 V	36 + 24*	IT 500	410	190	505	Tall Tubular	56.99
RLTT180	180 AH	12 V	36 + 24*	IT 500	410	190	505	Tall Tubular	62.04
RLTT200	200 AH	12 V	36 + 24*	IT 500	410	190	505	Tall Tubular	63.04
RLTT220	220 AH	12 V	36 + 24*	IT 500	410	190	505	Tall Tubular	69.54

** 24M free replacement and 24M prorata warranty

* 36M free replacement and 24M prorata warranty

