

# Solar Batteries



**TUBULAR GEL**

**MNRE  
Approved**

## FEATURES

- Special grid alloy for both positive & negative plates
- Tubular positive plate & special additives for negative plate
- Unique combination separators
- Surplus electrolyte in Gel form
- Robust design & construction

## BENEFITS

- Improved deep cyclic capability
- Enhances cyclic life under PSoC @ high operating temperatures
- Improves reliability during life by eliminating single cell failures due to internal shorts, etc during cycling
- Improves performance as well as thermal stability over a wide range of temperatures

## CONSTRUCTIONAL FEATURES

Positive Plate	Tubular Plate
Negative Plate	Flat Pasted
Separator	Sintered PVC
Container & Cover	PPFR
Electrolyte	Sulphuric acid in Gel form
Safety valve	Pressure regulated explosion proof with flame arrester
Terminals	Bolted type with brass inserts

## PERFORMANCE LEVELS

Design Life	20 years @ 27°C
Cycle Life	6200 @ 20% DoD @ 27°C 3080 @ 50% DoD @ 27°C 2200 @ 80% DoD @ 27°C
Self discharge	<4% per month @ 27°C
Shelf Life	upto 12 months @ 27°C
Operating conditions	-20° C to +55° C
Max. charging voltage	2.4 V
Min. cut-off voltage	1.85 V per cell
Charging method	Constant Potential
Recombination Eff	>99%
AH Efficiency	>95%
WH Efficiency	>85%

## GENERAL SPECIFICATIONS

Model	Nominal Voltage	Rated Capacity C10 @ 27°C (Ah)	Cell Dimensions (mm) +/- 5mm			Approx. Weight (kg)
			L	W	H	
MQT2-200PP	2V	200	83	167	385	13
MQT2-300PP	2V	300	116	167	405	18
MQT2-400PP	2V	400	149	170	405	24
MQT2-500PP	2V	500	180	167	385	30
MQT2-600PP	2V	600	211	169	405	32
MQT2-700PP	2V	700	262	170	405	34
MQT2-800PP	2V	800	262	170	405	37
MQT2-1000PP	2V	1000	356	173	388	62

**Note: General Specifications are subjected to changes without prior notice due to ongoing R&D process**

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FEATURES	BENEFITS
<ul style="list-style-type: none"> <li>Hybrid alloy design</li> <li>Tubular positive plate &amp; negative plate with special additives</li> <li>Improved design in construction &amp; material</li> <li>Flooded electrolyte for easy maintenance</li> </ul>	<ul style="list-style-type: none"> <li>Low maintenance &amp; long cyclic life</li> <li>Long life under Partial State of Charge and high temperature operation</li> <li>Moderate initial cost with low life cycle cost and fast charging capability</li> </ul>

CONSTRUCTIONAL FEATURES	
Positive Plate	Tubular Plate
Negative Plate	Flat Pasted
Separator	PE
Container & Cover	PP
Electrolyte	Sulphuric acid, 1.24 Sp. Gr. @ 27°C
Safety valve	Vented
Terminals	L-Type lead terminals with nut & bolt

PERFORMANCE LEVELS	
Design Life	10 years @ 27°C
Cycle Life	5000 @ 20% DoD @ 27°C 3000 @ 50% DoD @ 27°C 1500 @ 80% DoD @ 27°C
Self discharge	<5% per month @ 27°C
Shelf Life	upto 3 months @ 27°C
Operating conditions	0° C to +50° C
Max. charging voltage	14.4 V
Min. cut-off voltage	11.1 V
Charging method	Constant Potential
AH Efficiency	>90%
WH Efficiency	>85%

### GENERAL SPECIFICATIONS

Model	Nominal Voltage	Rated Capacity C20 @ 27°C (Ah)	Battery Dimensions (mm) +/- 5mm			Approx. Weight (kg)
			L	W	H	
PBT12-40PP	12V	40	305	170	220	20
PBT12-80PP	12V	75/80	500	220	250	37
PBT12-100/120PP	12V	100/120	518	270	250	46
PBT12-150PP	12V	150	512	275	280	58
PBT12-180/200PP	12V	180/200	520	218	340	62

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