

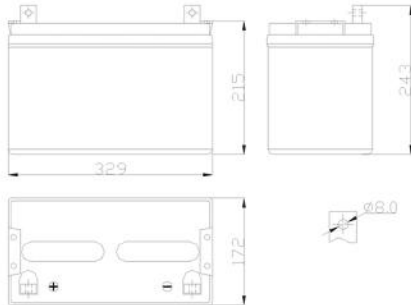


Azimuth Solar Products Inc.

Lead Carbon 12V 100Ah Battery ASP-LC12100

The TRC12-100 lead carbon battery is excellent charging acceptance with high charging efficiency, excellent PSoC cycle performance under high and low ambient temperature with floating service life above 15 years at 20°C/68°F

Outer Dimensions



Dimensions and Weight

Length (mm).....	329
Width (mm).....	172
Height (mm).....	215
Total Height (mm).....	243
Approx.Weight(Kg).....	30

Discharge Constant Power (Watts/cell at 77°F/25°C)

Max.charge Current 77°F(25°C).....38A

Discharge constant power

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	706.5	575.3	404.8	255.2	195.7	154.6	88.8	64.4	43.5	28.8	24.8	13.9
1.65V	680.3	546.5	396.6	253.2	189.8	153.3	88.6	63.6	43.4	28.6	24.7	13.8
1.70V	676.8	529.3	392.6	253.2	186.7	152.3	88.2	63.2	42.9	28.4	24.5	13.8
1.75V	627.9	525.3	390.8	252.1	179.5	151.2	87.7	62.9	42.7	28.2	24.2	13.7
1.80V	575.4	501.6	373.5	247.8	171.1	150.0	87.6	62.6	42.2	28.0	23.8	13.6

Discharge Constant Current (Amperes at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	386.6	282.6	204.2	126.6	99.1	80.9	48.4	37.1	23.9	16.2	14.2	7.8
1.67V	378.4	276.8	198.9	122.6	98.4	80.2	48.2	34.9	22.8	15.7	14.1	7.7
1.70V	356.9	274.1	192.3	199.9	96.7	79.1	47.6	34.3	22.5	15.6	13.8	7.64
1.75V	520.7	267.3	186.7	198.6	96.0	78.0	46.8	33.9	22.1	15.4	13.6	7.5
1.80V	322.4	247.8	168.4	195.2	95.6	77.5	45.1	33.5	21.9	15.3	13.3	7.4

Performance Characteristics

Nominal Voltage.....	12 V
Number of cell.....	6
Design Life.....	15 years
Nominal Capacity 77°F(25°C)	
10 hour rate(25A,10.5V).....	100Ah
Internal Resistance	
Fully Charged battery 77°F(25°C).....	3.6mΩ

Self-discharge

<3% of capacity declined per month at 20°C(average)

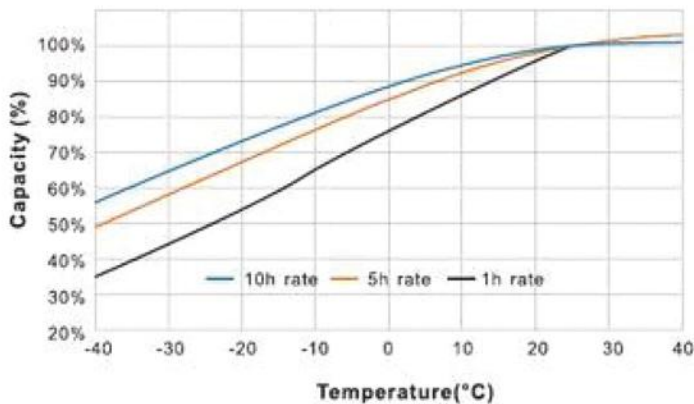
Operation Temperature Range

Discharge.....	-40~60°C
Charge.....	-20~50°C
Storage.....	-20~60°C
Best operation temperature.....	15~25°C

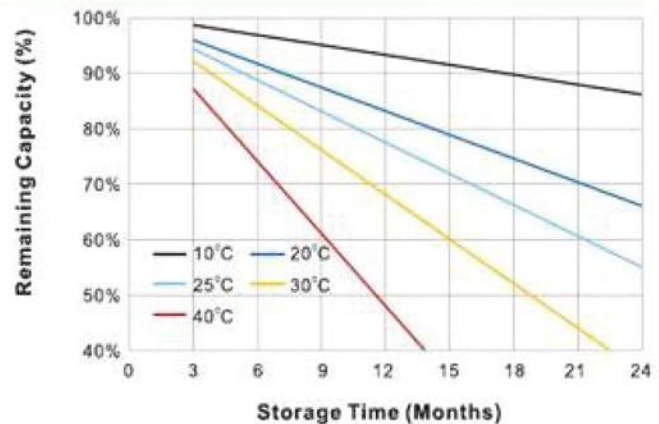


Performance Curves

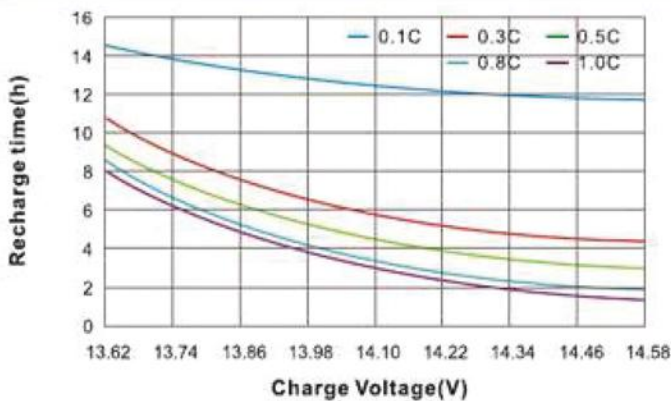
Temperature effects in Relation to Battery Capacity



Self Discharge Characteristics



Recharge Time From 100% DOD



Cycle Life in Relation to Depth of Discharge

