

## Batt-2T500 BATTERY DATA SHEET

### Battery Type

Battery Model: Batt-2T500

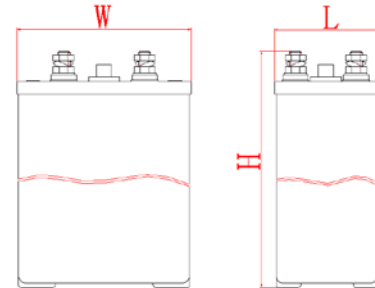
Brand: Solarbatt

Nominal Capacity: 500Ah

Nominal Voltage: 1.2V

Recommended Discharge Duration:  $t \geq 3h$

Work Temperature:  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$



### Physical Properties

Height(H):  $\leq 510\text{mm}$

Length(L):  $\leq 176\text{mm}$

Width(W):  $\leq 291\text{mm}$

Max. Weight:  $\leq 36.5\text{kg}$

Electrolyte Type: E3( $1.2\text{g}/\text{cm}^3$  KOH +  $20\text{g}/\text{L}$  LiOH·H<sub>2</sub>O)

Electrolyte Volume: 9.2L

### Structure

Container Material: ABS

Separator Material: ABS

Terminal Size: M20

Terminal Qty.:  $\oplus 2/\ominus 2$

Connection Torque:  $50 \pm 3\text{N.m}$

### Plates Type

Positive: Pocket type plates

Negative: Pocket type plates

### Cable

Sectional area of cables:  $\geq 50\text{mm}^2$

### Recommended Charging Method

1) Dual-voltage charging setting ( $25^{\circ}\text{C}$ ):

Equalizing charging: 1.70V

Floating Charging: 1.45V

2) Single-voltage charging setting: 1.50V

**Internal Resistance/Short-circuit current**

Internal Resistance: 0.50mΩ~0.60mΩ

Short-circuit current: 6000A

**Discharge Performance**

Performance after charging the battery for 8 hrs with 0.2ItA at 20±5℃

End off voltage V/cell	Hours							Minutes						Seconds		
	10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
1.00	52.5	64.4	100	162	220	265	330	407	461	492	539	616	787	854	922	1022
1.05	52	63.8	97	145	196	235	274	338	372	408	443	505	641	693	756	810
1.10	48.5	60	94	129	172	198	227	271	305	324	349	408	526	554	613	639
1.14	48	58.8	73.7	114	141	161	181	217	239	250	276	316	412	447	475	499