EB80 12V 80Ah

Sealed Lead-Acid (SLA) Deep Cycle Battery



Applications

- EV Golf Cart, Utility Vehicles or NEV
- Scissor Lifts, Aerial Work Platforms
- Floor Sweeper, Scrubbers or Floor Cleaning Machine
- Material Handling
- Renewable Energy

General Features

- DOD 50% more than 1000 life cycles
- Long life and high stability under high temperature environment
- Design for usable at tropical countries
- Rechargeable and maintenance-free
- Gel VRLA (Valved Regulated Lead-Acid) battery

Specifications

BCI Group Size	Model	Voltage	Cell	[1] Capacity (Ah) @ 25°C						[2] Minutes of Discharge			Internal Resistance	Dimensions (mm)				Weight (kg)
				1 hr rate	2 hr rate	5 hr rate	10 hr rate	20 hr rate	100 hr rate	@25A	@56A	@75A		L	W	H	TH	
27	T-EB80	12V	6	52	66	79	95	102	112	165	48	32	≤ 3.5mΩ	307	169	211	216	30.5

[1] The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate a 25ºC and maintain a voltage above 1.75V/cell. Capacities are based on peak performance.
[2] The number of minutes a battery can deliver when discharged at a constant rate at 25ºC and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.

Charging Instructions

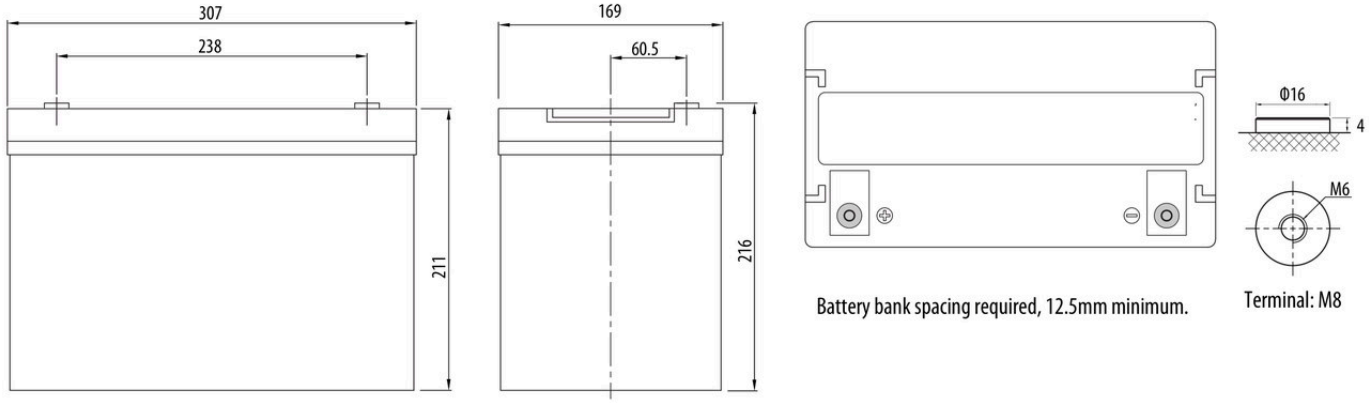
Recommended Charge Current	**Cyclic Application**
- With Temperature Compensation	22.5 A Max.
- Without Temperature Compensation	8.0 - 22.5 A
Charge Voltage (12 Volts)	14.4 - 14.9 V
Bulk Charge	14.7 V
Absorption Charge	14.7 V
Float Charge	13.8 V
Temperature Compensate Factor	- 4 mV/°C/Cell

DO NOT charge at temperature corrected voltages above 15 Volts (2.5 Volts/cell).
Use of voltage controlled charger is a requirement for warranty coverage.
For best cycle llfe, limit discharge to less than 50% of the battery's 20 hour capacity.

Operating Temperature

Discharge:	-15°C~45°C
Charge:	-15°C~45°C
Storage:	-15°C~45°C

Dimensions and Terminal



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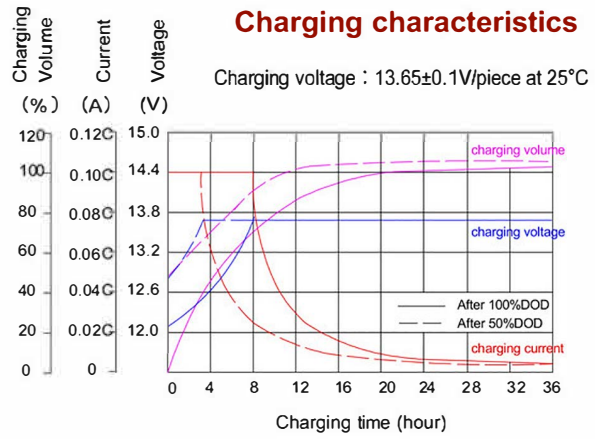
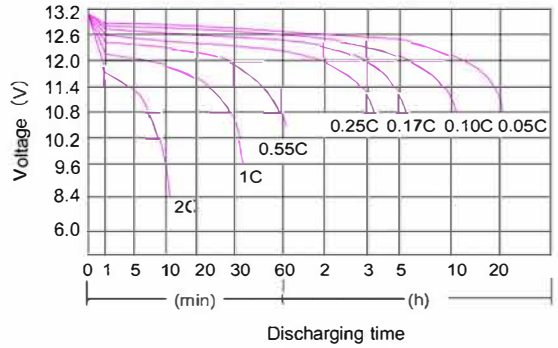
Battery Construction

Positive plate	Negative plate	Container&Cover	Safety valve	Terminal	Seperator	Electrolyte	Pillar seal
Thick high Sn, low Ca grid	Pb-Ca grid	ABS	Si-Rubber	Copper insert M8	PVC/AGM seperator for high pressure cell	Silicone Gel	Two layers epoxy resin seal

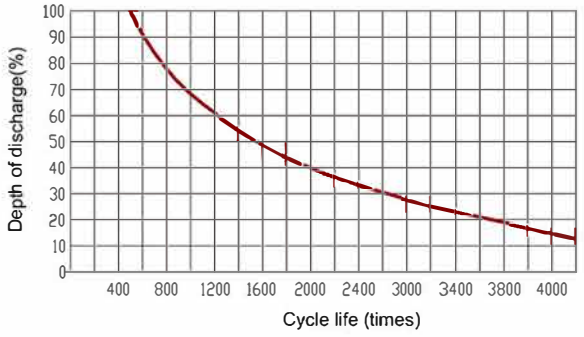
Charging characteristics



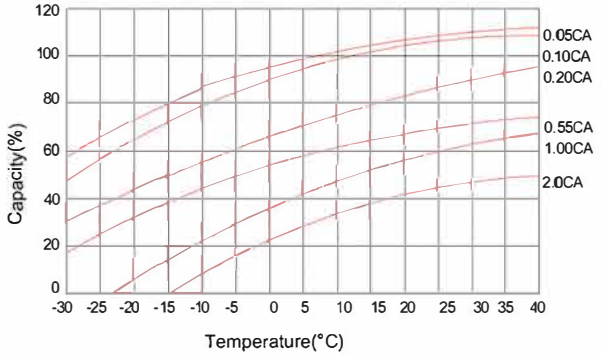
Discharge characteristics (25°C)



Cycle life vs. Depth of discharge (25°C)



Temperature effect on capacity



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