6-DZM-14

12V VRLA E-bike Battery



Specifications

Model number	6-DZM-14 VRLA
Nominal voltage	12 V
Number of cells (per block)	6 cells
Open-circuit voltage (per block)	13.1–13.45 V
Nominal weight	Approx. 5.4 kg
Dimensions (L × W × container H × total H)	151 × 99 × 116 × 119 ± 2 mm
Container material	Enhanced ABS
Maximum discharge current	150 A (5 s)
Maximum charge current	2.2 A

Rated Capacity at 25°C

Discharge rate / end voltage	Capacity
2 h rate (to 1.75 V/cell)	14 Ah
3 h rate (to 1.75 V/cell)	14.8 Ah
5 h rate (to 1.80 V/cell)	15.9 Ah
20 h rate (to 1.85 V/cell)	19.3 Ah

Charge Voltage

Charging mode	Voltage
Float charge	13.5–13.8 V
Cycle charge	14.5–14.8 V

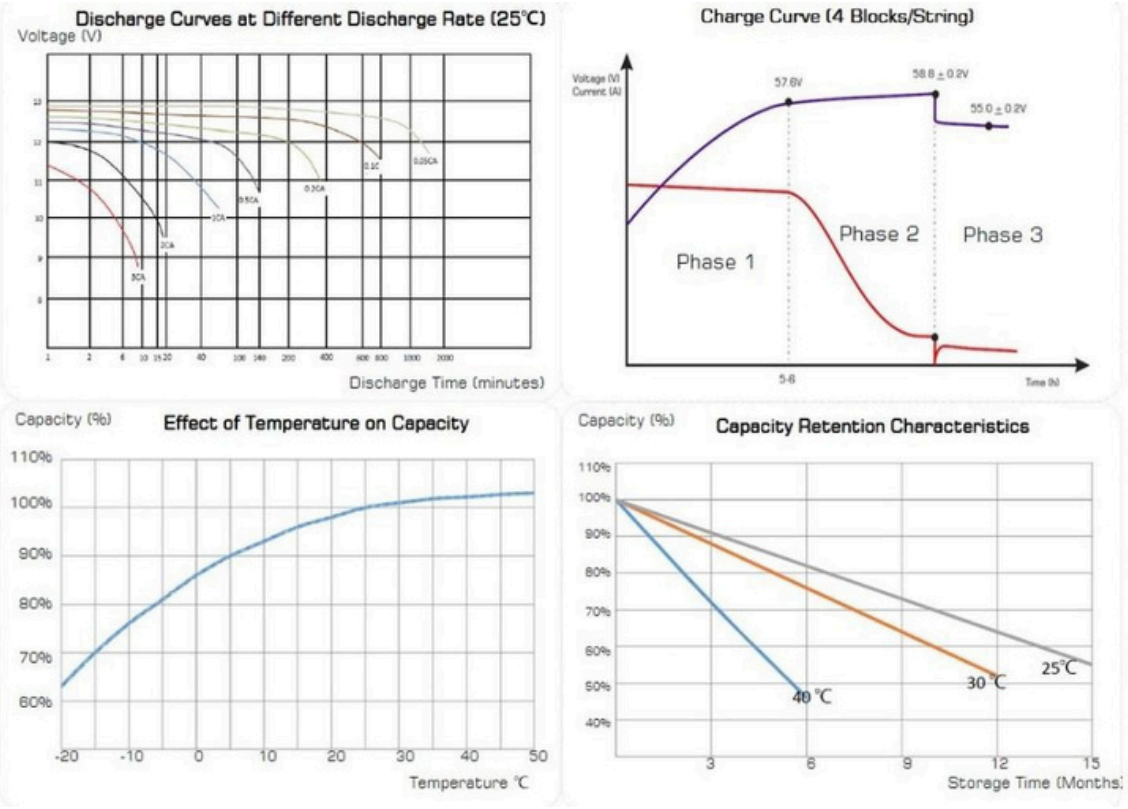
Note: Specifications and graph values are reproduced from the supplied reference images. Confirm operating limits with the battery supplier before use.

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Performance Characteristics

Discharge curves, charge curve, temperature effect and capacity retention



I. Charging Instructions

Table 1.Charging parameters (ambient temperature: 25°C)

Usage	For Floating Charge		For Cycle Use	
	6V battery	12V battery	6V battery	12V battery
Charging Voltage (V)	6.75–6.90	13.5–13.8	7.20–7.50	14.4–15.0
Max. Charging Current (A)	0.1C–0.25C			
Definition	“C” refers to the Ah value of the battery’s rated capacity.			

Note: i. When the ambient temperature is below 15°C or above 35°C, the recommended compensation factor is –3 mV/°C/cell for floating charge and –4 mV/°C/cell for cycle use, with 25°C as the reference temperature.

ii. The battery temperature during charging should be maintained between –15°C and 50°C.

II. Discharging Instructions

Table 2. Relationship between discharge current and final discharge voltage

Discharge Current (A)	Final Discharge Voltage
0.2C or below	1.75 V/cell
From 0.2C to 0.5C	1.70 V/cell
Above 0.5C	1.60 V/cell

Note: As shown in the table above, the final discharge voltage depends on the discharge current.

Caution: During discharge, the voltage must not fall below the specified final discharge voltage.

ii. Recharge the battery immediately after discharge or over-discharge to prolong battery life. iii. The battery temperature during discharge should be maintained between –15°C and 50°C.

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