

# 3.2V 280Ah prismatic battery cell

SKU: 6000014

EAN:



## FEATUES

### ● Safe use at home

Good safety performance, square aluminum shell structure, high precision explosion-proof valve design. 280Ah, long life, green environmental protection. Our prismatic battery cells make ideal off-grid solar, campervan, marine and small off-road vehicle batteries. They are generally renowned for being the best DIY battery for energy storage applications due to their exceptional safety record, powerful storage and reliability.

### ● Safe for commercial use

Strong iron phosphate lithium battery, cold and high temperature resistance, easy to solve the problem of electricity. They have a lifespan of around 6000 cycles and charge at 0.5C (0.05C termination current up to 3.65V) with discharge 1C (down to 2.5V). These cells require connecting together with the included busbars and screws.

### ● Wide application range

This connector is capable of handling the current, and is far safer, performing better than other studs or 3rd party connectors. Busbars (nickel plated copper) and screws (16 nuts and bolts) are included.



## SPECIFICATIONS

Item	Parameter	Remark
Nominal Capacity	280.0 Ah	
Typical Voltage	3.2 V	(25 ± 2)°C, Standard charge and discharge
AC Impedance Resistance(1KHz)	≤0.25 mΩ	
<b>Standard charge and discharge</b>		
Charge I discharge cun-ent	0.5 C/0.5 C	
Cut off voltage of charge / discharge	3.65 V/2.5 V	
<b>Maximum charge / discharge cun-ent</b>		
Continuous charge / discharge	1 C/1 C	According to continuous / pulse charge and discharge ammeters
Pulse charge / discharge (30s)	2 C/2 C	
Reconunended scope of SOC	10%-90%	N.A.
Charging Temperature	0 °c-55 °C	According to continuous / pulse charge and discharge ammeters
Discharging Temperature	-20 °C~55 °C	
Storage temperature		

Short term (within 1 month )	-20°C~45°C	
Long term (within 1 year )	0°C~35°C	N.A .
Storage humidity range	<90%	
Self-discharge rate per month	≤3%/month	Temperature: (25 ± 2)° C, Storage scope of SOC: 30%~50%SOC

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**Dimension**

Width	173.7 ± 0.5mm	
Thickness (under 300 ± 20kgf, 30%~40% soc)	72.0 ± 1.0mm	
Average thickness (200 pcs, under 300 ± 20kgf, 30%~40% SOC )	72.0 ± 0.5mm	Refer to Appendix I
High (total)	207.5 ± 0.5mm	
High (subject)	204.6 ± 0.5mm	
Tabs Distance	123.0 ± 0.3mm	
Battery weight	5.42 ± 0.3kg	