

SM Solar

SMB20

SPECIFICATION

● Nominal Voltage:	12V
● Nominal Capacity (2hr):	20Ah
● Dimension	
Length:	181.0mm
Width:	77.0mm
Height:	170.0mm
● Weight:	~7.1kg
● Container Material:	ABS
● Terminal:	Copper terminal (M5)
● Electrolyte:	Ultrafine nano-silica gel

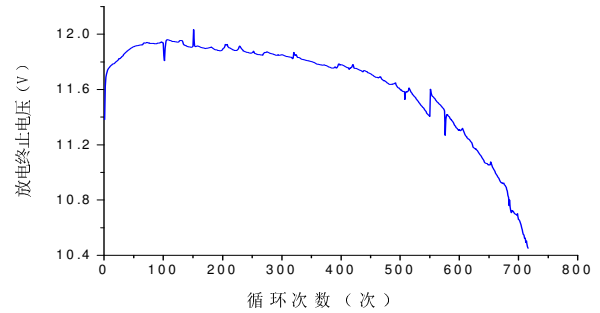
CHARACTERISTIC

● Capacity (25℃)	
20hr (1.1A):	≥24.0Ah
2hr (10.0A):	≥20.0Ah
● Polarity:	accurate positive and negative polarity, clear sign
● Open circuit voltage:	Ex-factory open-circuit voltage ≥ 13.1V
● High discharge current performance:	discharge at 3C ₂ A for at least 5min.
● Vibration performance:	Comply with Standard JB/T 10262-2001.
● Safety Performance:	Comply with Standard JB/T 10262-2001.
● Charge Mode (25℃)	
Boost Charge:	1 st step 14.80 ± 0.18V (-24mV/℃) ≤ 12h 2 nd step 13.80 ± 0.18V (-24mV/℃) ≤ 8h
Max. Charge Current:	3.0A
● Operation Ambient Temperature:	-15 ~ 50℃
Optimal Ambient Temperature:	5 ~ 30℃
● Designed life (cycling, 20℃):	≥ 2years
● Warranty:	6 months
● Cycling life:	750cycles
● Discharge Capacity at Different Temperature	

40℃:	~105%
25℃:	~100%
0℃:	~80%
● Self-discharge Residual Capacity	
After 1 Month:	≥90%
After 3 Months:	≥80%
After 6 Months:	≥70%

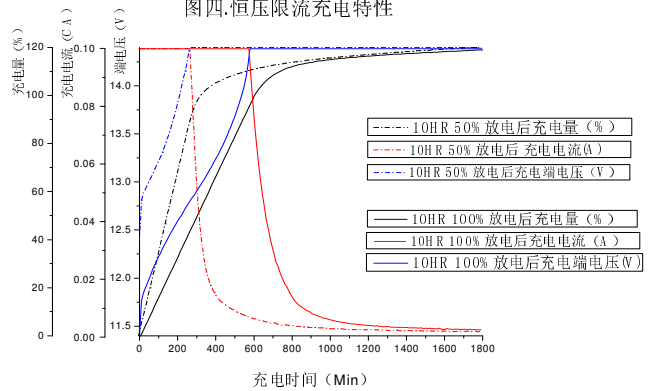
Battery Cycling Life Curve

图二. 加速循环寿命曲线



Battery Charging Curve

图四. 恒压限流充电特性



Dimension

