

Product specification manual

PHYSICAL SPECIFICATION

Concept		Content	Unit
Nominal Voltage		6	V
Nominal Capacity (20hr)		4.5	AH
Dimention	Lenth	70±1mm	mm
	Width	47±1mm	mm
	Height	101±1mm	mm
	total Height	105±1mm	mm
Referential weight		≈ 0.71	kg

ELECTRICAL SPECIFICATION

Nominal Capacity (20°C)

Hour Rate	Discharge Current	To	End Voltage	Rated Capacity	Unit
20hour rate	0.23	to	5.25	4.59	AH
10hour rate	0.45	to	5.25	4.23	AH
5hour rate	0.75	to	5.25	3.83	AH
1hour rate	2.58	to	5.25	2.57	AH
1C20	4.50	to	4.8	2.21	AH
3C20	13.50	to	4.8	1.67	AH

Capacity affected by Temperature(20hr)

-20°C	65%
20°C	100%
50°C	105%
Internal Resistancefully charging battery (20°C)	
	20-28 mΩ

charging (constant Voltage)	Cycle	Initial charging Current less than 1.35A Voltage 7.3~7.6V (20°C)Temp Coefficient -12 mv/°C
	Float	Initial charging Current less than 1.35A Voltage 6.8-6.9V (20°C)Temp Coefficient -9 mv/°C

The use of the environment	chargeing 0°C to 40°C discharge -15°C to 50°C Preservation -15°C to 40°C
Charge retention time (20°Cpreservation environment)	one month 90% three month 85% six month 75%

Table of Relationship between Open Circuit Voltage and Capacity -(25°C)		
capacity	6V open circuit voltage	12V open circuit voltage
100%	$V > 6.5V$	$V > 13.0V$
90%	$6.40 < V < 6.50$	$12.80 < V < 13.00$
80%	$6.33 < V < 6.40$	$12.65 < V < 12.80$
70%	$6.25 < V < 6.33$	$12.50 < V < 12.65$
60%	$6.18 < V < 6.25$	$12.35 < V < 12.50$
50%	$6.10 < V < 6.18$	$12.20 < V < 12.35$
40%	$6.03 < V < 6.10$	$12.05 < V < 12.20$
30%	$5.95 < V < 6.03$	$11.90 < V < 12.05$
20%	$5.88 < V < 5.95$	$11.75 < V < 11.90$
10%	$5.80 < V < 5.88$	$11.60 < V < 11.75$