



ALPHA HOUSE

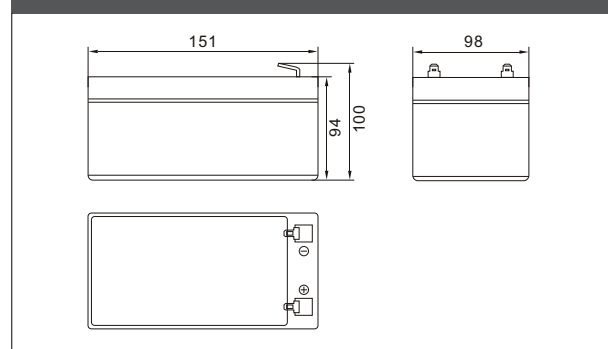
intelligent power

AH12-14

(12V-14Ah)
VRLA AGM



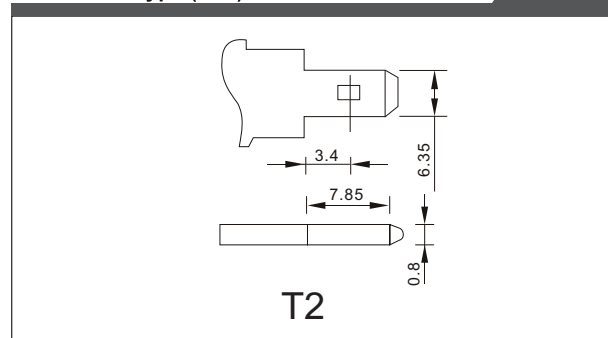
Outer Dimensions (mm)



Specifications

Nominal Voltage	12V	
Rated capacity (20 hour rate)	14Ah	
Dimensions	Total Height	100 mm (3.94 inches)
	Height	94 mm (3.70 inches)
	Length	151 mm (5.94 inches)
	Width	98 mm (3.86 inches)
Approx. Weight	3.6 Kg (7.96 lbs)	
Terminal	T2	

Terminal Type (mm)



Characteristics

Capacity 25°C(77°F)	20 hour rate(0.70 A)	14 AH
	10 hour rate(1.28 A)	12.8 AH
	5 hour rate(2.40 A)	12.0 AH
	1 hour rate(8.40 A)	8.40 AH
	1.5 hour discharge to 10.5V	5.6 A
Internal Resistance	Full charged Battery at 25°C(77°F)	12.5mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Charge (constant Voltage)	Cycle	Initial Charging Current less than 4.2 A. Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V
Design Life		5~7 Years(Float charging)

Construction

Component	Positive plate	Negative plate	Container	Cover
Raw material	Lead dioxide	Lead	ABS (V0/HB)	ABS (V0/HB)
Component	Separator	Electrolyte	Safety valve	Terminal
Raw material	AGM	Sulfuric acid	Rubber	Cu coated by Ag

Product Compliance

IEC: 60896-21/22:2004;
GB/T: 19639-2014;
JIS: CB704-1:2006;

UL: MH26669;
BS: 6290 part 4;
EUROBAT; CE

Manufacturer's Certificates

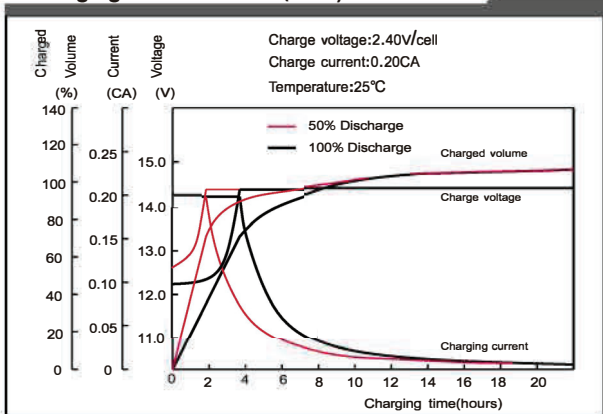
ISO: 9001:2005
ISO: 14001:2015
OHSAS: 18001:2007

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

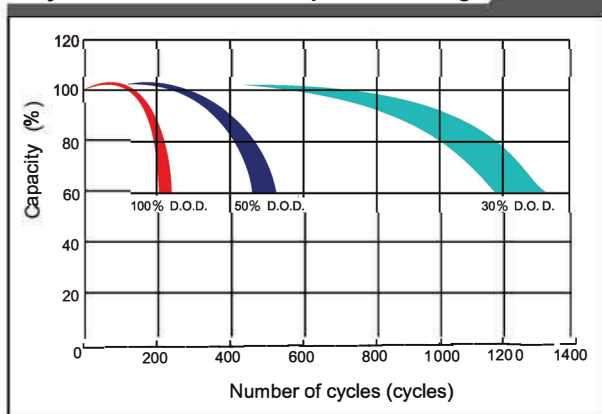
Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	50.4	33.0	24.5	16.1	8.4	4.90	3.61	2.89	2.46	1.62	1.32	0.72
	W	523	355	263	173	91	53.8	40.1	32.6	27.9	18.6	15.3	8.4
10.20V	A	46.2	31.6	22.5	15.3	7.9	4.70	3.50	2.80	2.41	1.59	1.30	0.71
	W	496	354	252	172	89	54.2	40.5	32.6	28.1	18.6	15.3	8.3
10.50V	A	42.1	29.5	21.0	14.8	7.6	4.61	3.44	2.66	2.40	1.58	1.29	0.70
	W	462	336	240	170	88	53.4	40.1	31.2	27.9	18.6	15.2	8.3
10.80V	A	40.4	28.2	19.6	14.4	7.4	4.49	3.38	2.61	2.28	1.53	1.25	0.68
	W	453	326	226	167	86	52.6	39.9	30.9	26.9	18.2	14.9	8.1
11.10V	A	37.4	26.6	18.2	14.0	7.1	4.38	3.21	2.57	2.18	1.49	1.23	0.67
	W	424	308	212	164	83	51.7	38.1	30.6	26.0	17.9	14.8	8.1



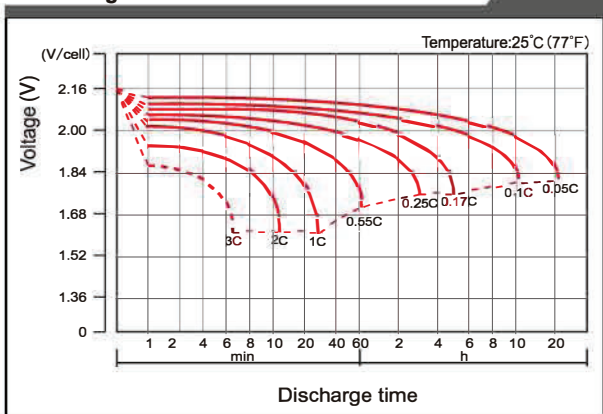
● Charging Characteristics(25°C)



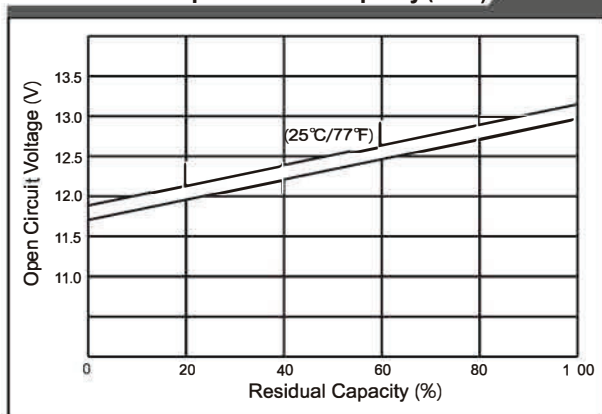
● Cycle Life In Relation To Depth Of Discharge



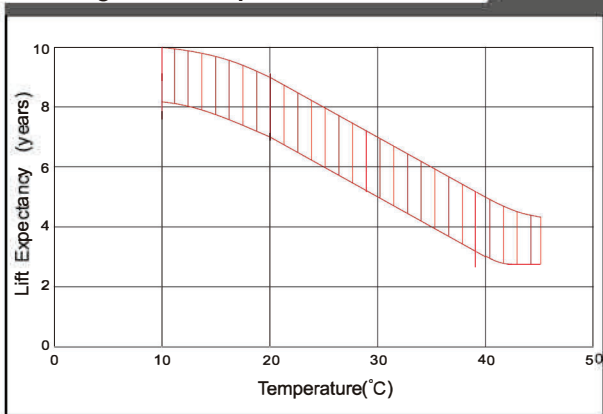
● Discharge Characteristics Curve



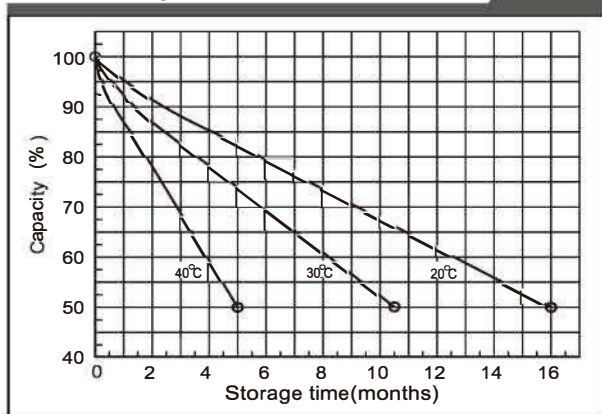
● The Relationship of OCV and Capacity (25°C)



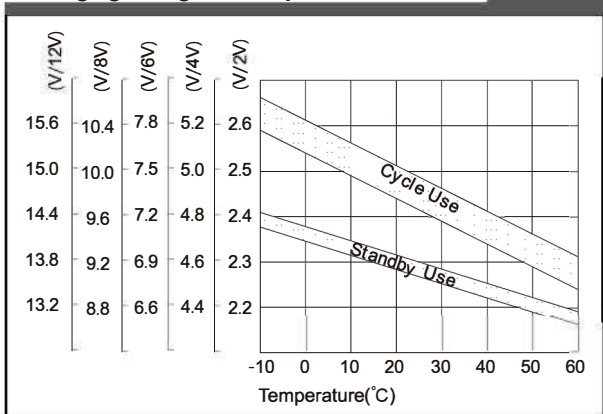
● Floating Life On Temperature



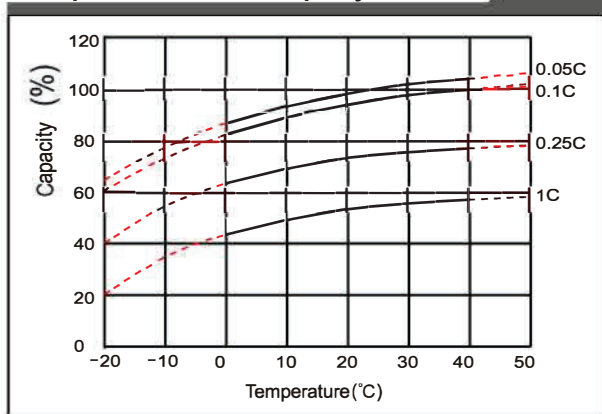
● Self-Discharge Characteristics



● Charging Voltage VS Temperature



● Temperature Effects On Capacity



Disclaimer: The manufacturer reserves the right to amend and/or vary the specifications and parameters of the product and apply updates accordingly at any time. It is the sole responsibility of the buyer and user of the product to ensure all applicable product specifications referred to are valid and up to date. All product specifications are available upon request. Batteries must be installed in accordance with standard BS EN IEC 62485-2:2018, and in accordance with manufacturer's guidelines. (available upon request)

