



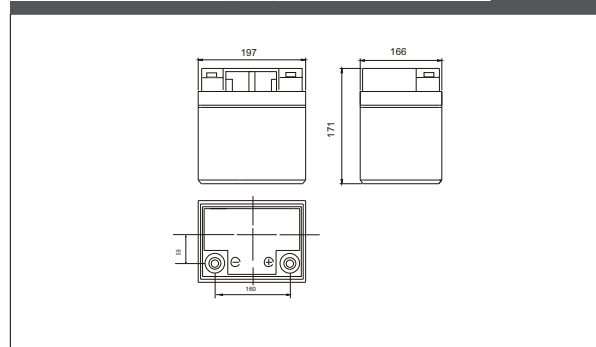
ALPHA HOUSE
intelligent power

AH12-44

(12V-44Ah)
VRLA AGM



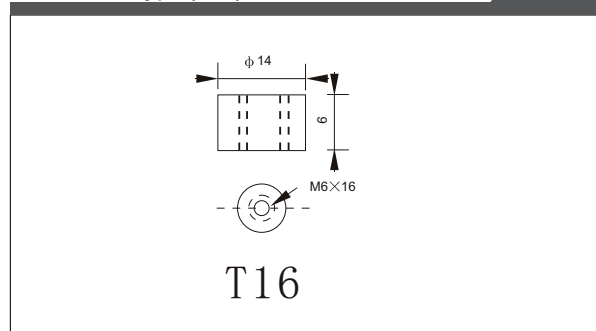
Outer Dimensions (mm)



Specifications

Specifications		
Nominal Voltage		12V
Rated capacity (10 hour rate)		44 Ah
Dimensions	Total Height	171 mm (6.73 inches)
	Height	171 mm (6.73 inches)
	Length	196 mm (7.70 inches)
	Width	166mm (6.54 inches)
Approx. Weight		13.2 Kg (29.18 lbs)
Terminal		T16
Terminal Torque		12 Nm

Terminal Type (mm)



Characteristics

Capacity 25°C(77°F)	10 hour rate (4.4 A)	44.0 AH
	5 hour rate (7.0 A)	35.0 AH
	1 hour rate (26.4 A)	26.4 AH
	1.5 hour discharge to 10.5V	17.6 A
Internal Resistance	Full charged Battery at 25°C (77°F)	9 mΩ
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 11 A. Voltage 14.10-14.40V
	Float	Voltage 13.50-13.80V
Design Life	10 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

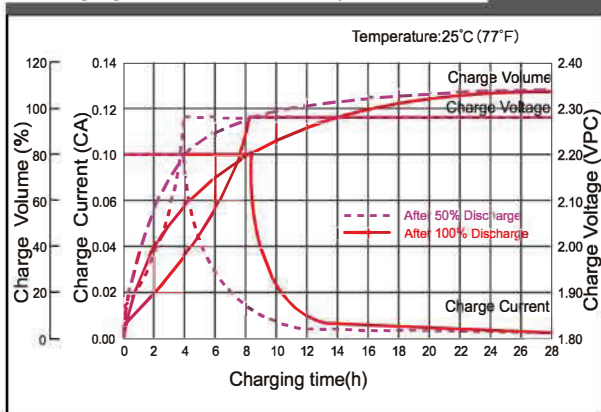
IEC: 60896-21/22:2004; UL: MH26669;
GB/T: 19639-2014; BS: 6290 part 4;
JIS: CB704-1:2006; EUROBAT; CE

Manufacturer's Certificates

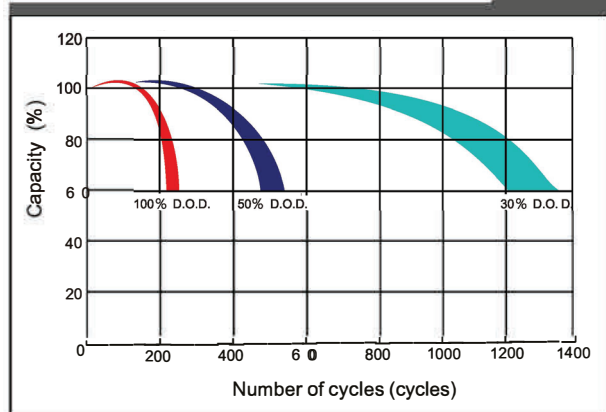
ISO: 9001:2005
ISO: 14001:2015
OHSAS: 18001:2007

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	141	93	75	50	26	15	11.3	8.8	7.3	5.1	4.6	2.5
	W	1454	992	802	539	285	169	125.9	99.0	82.5	59.0	53.4	29.0
10.20V	A	136	84	70	48	25	15	11.0	8.6	7.1	5.0	4.5	2.4
	W	1458	935	789	538	281	169	127.4	99.8	83.1	58.7	53.2	28.4
10.50V	A	132	75	62	45	24	14	10.7	8.4	7.0	5.0	4.4	2.4
	W	1442	852	703	516	278	166	125.1	98.8	82.5	58.5	52.6	28.6
10.80V	A	127	71	57	41	23	14	10.5	8.3	6.9	4.8	4.4	2.4
	W	1428	814	660	479	270	164	123.5	98.2	81.1	57.4	52.3	28.3
11.10V	A	123	66	53	37	22	14	10.1	8.1	6.7	4.7	4.2	2.2
	W	1395	766	616	432	264	161	120.2	96.4	79.8	56.4	50.5	27.2

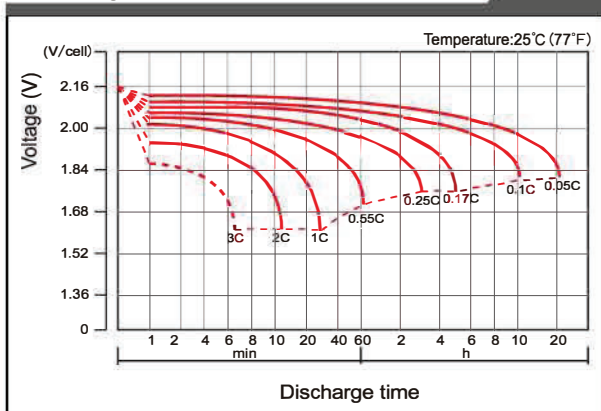
● Charging Characteristics(25°C)



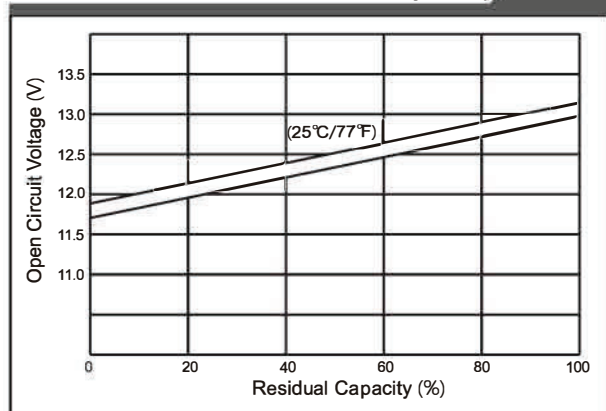
● Cycle Life In Relation To Depth Of Discharge



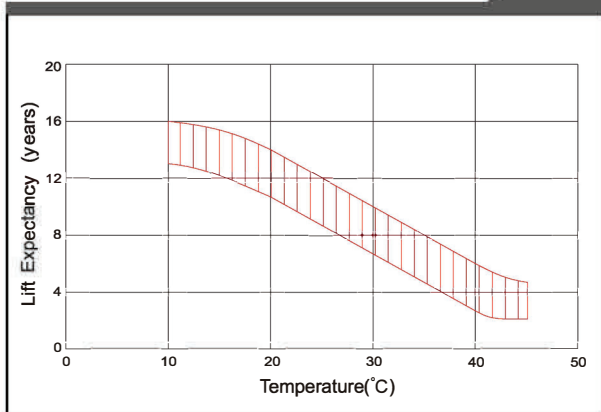
● Discharge Characteristics Curve



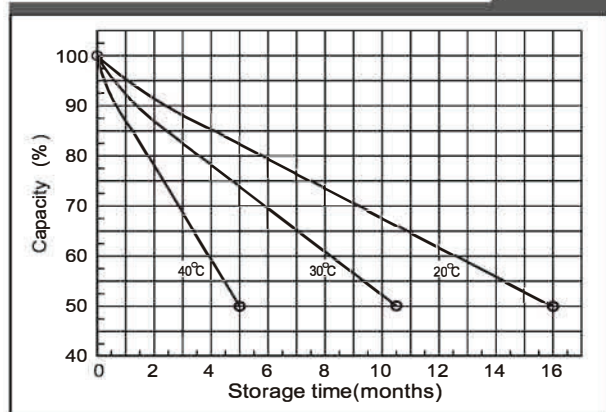
● The Relationship of OCV and Capacity (25°C)



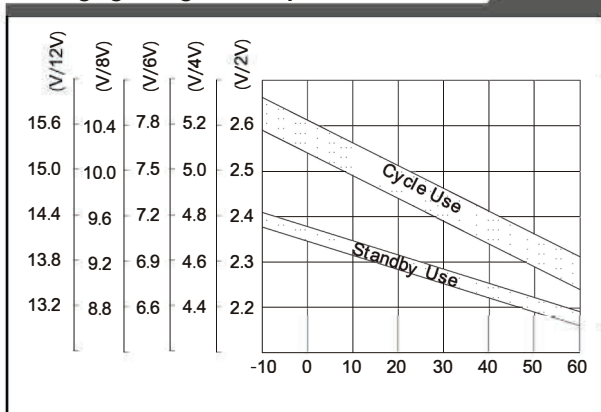
● Floating Life On Temperature



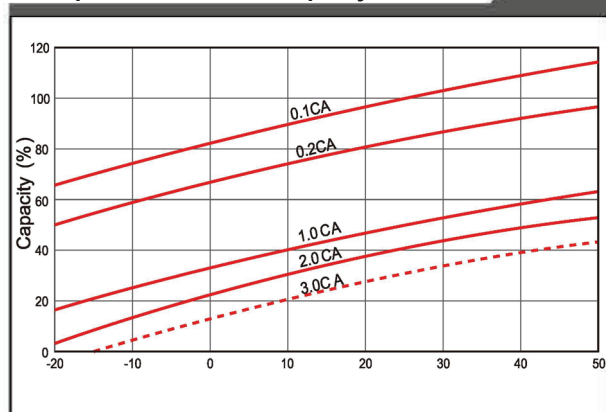
● Self-Discharge Characteristics



● 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)