



ALPHA HOUSE

intelligent power

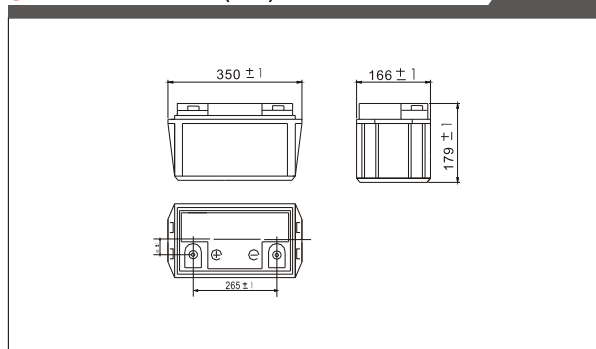
AH12-65

(12V-65Ah)

VRLA AGM



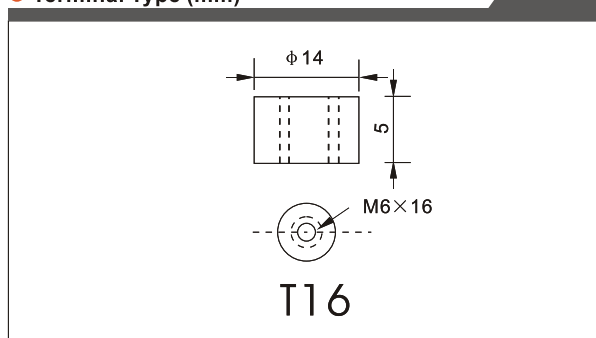
Outer Dimensions (mm)



Specifications

Nominal Voltage	12V	
Rated Capacity (10 hour rate)	65 Ah	
Dimensions	Total Height	179 mm (7.05 inches)
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	Length	350 mm (13.8 inches)
	Width	166mm (6.54 inches)
Approx. Weight	20.4Kg (44.8 lbs)	
Terminal	T16	
Terminal Torque	12 Nm	

Terminal Type (mm)



Characteristics

Capacity 25°C(77°F)	10 hour rate(6.5 A)	65 AH
	5 hour rate(10.4 A)	52 AH
	1 hour rate(39.0 A)	39 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	5.5 m Ω
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 16 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

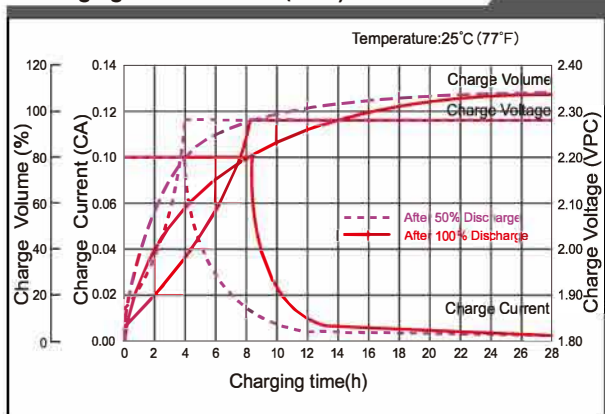
Manufacturer's Certificates

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

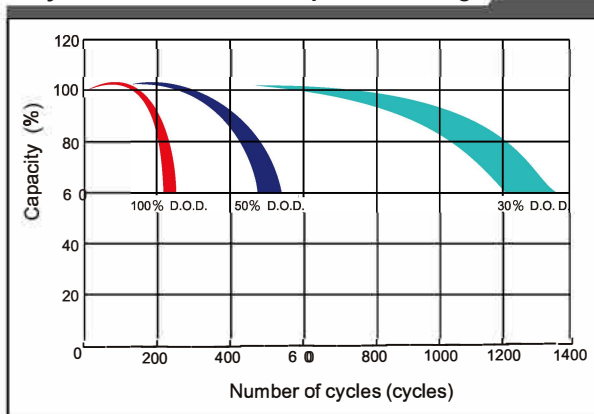
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	208	137	111	74.1	39.0	22.8	16.7	13.0	10.7	7.61	6.83	3.69
	w	2149	1465	1185	797	421	250	186	146	122	87	79	42.9
10.20V	A	202	124	104	70.9	36.7	21.7	16.3	12.7	10.5	7.41	6.70	3.58
	w	2153	1382	1165	795	415	250	188	147	123	87	79	41.9
10.50V	A	195	111	91	66.3	35.5	21.2	15.9	12.5	10.4	7.35	6.57	3.58
	w	2130	1259	1039	763	411	246	185	146	122	86	78	42.3
10.80V	A	188	104	85	61.1	34.3	20.7	15.5	12.3	10.1	7.15	6.50	3.51
	w	2109	1203	975	708	399	242	182	145	120	85	77	41.8
11.10V	A	182	98	78	54.6	33.2	20.2	15.0	12.0	9.9	6.96	6.18	3.32
	w	2060	1132	909	639	390	238	178	142	118	83	74.5	40.2

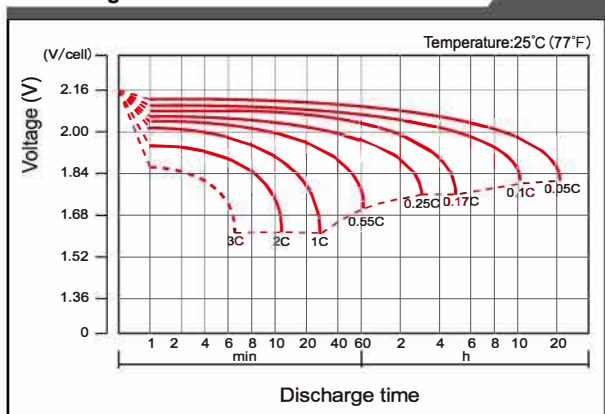
● **Charging Characteristics(25°C)**



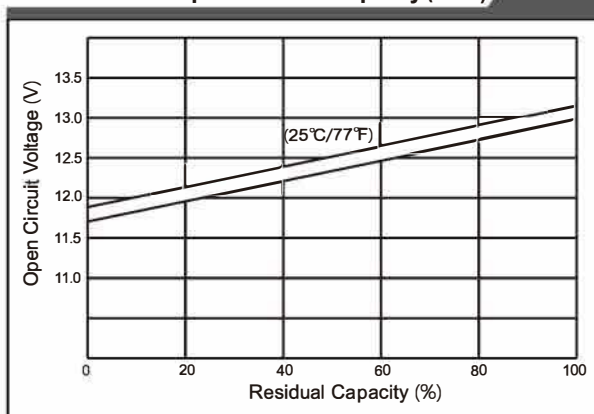
● **Cycle Life In Relation To Depth Of Discharge**



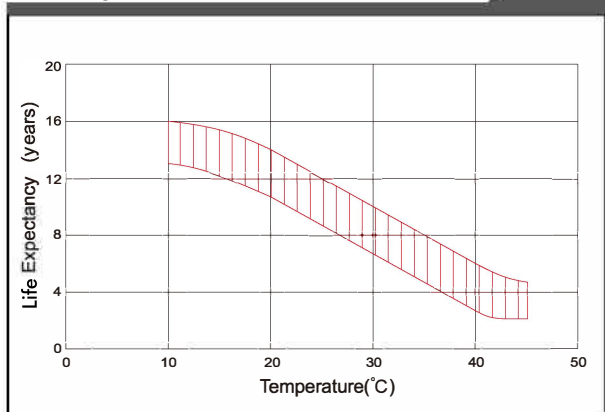
● **Discharge Characteristics Curve**



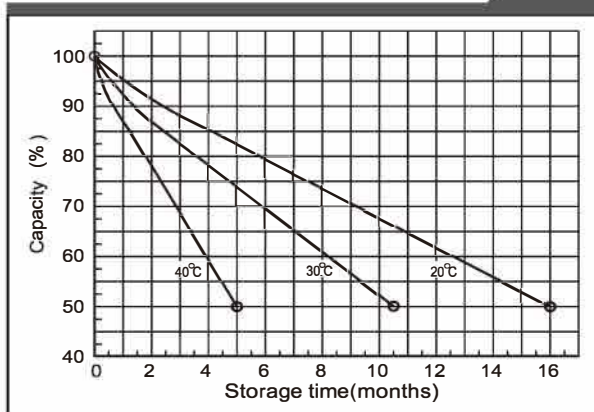
● **The Relationship of OCV and Capacity (25°C)**



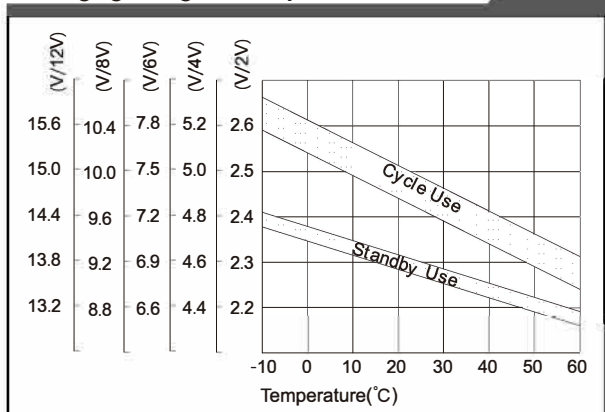
● **Floating Life On Temperature**



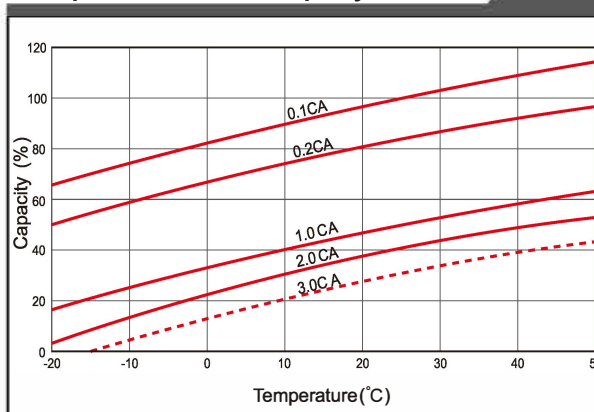
● **Self-Discharge Characteristics**



● **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)