

GLP 33-12

Compliance with standards

PN-EN 60896-21:2007
PN-EN 60896-22:2007
PN-EN 61056-1:2008
PN-EN 61056-2:2003(U)
PN-E-83016:1999



The **GLOBAL LEADER POWER** VRLA AGM battery series are designed to work in emergency power supply or other cyclic applications. The preferred uses for these are automation systems, mobile power source, engine power sources etc. For 50% deep cycle, up to 400 charge-discharge cycles can be achieved.

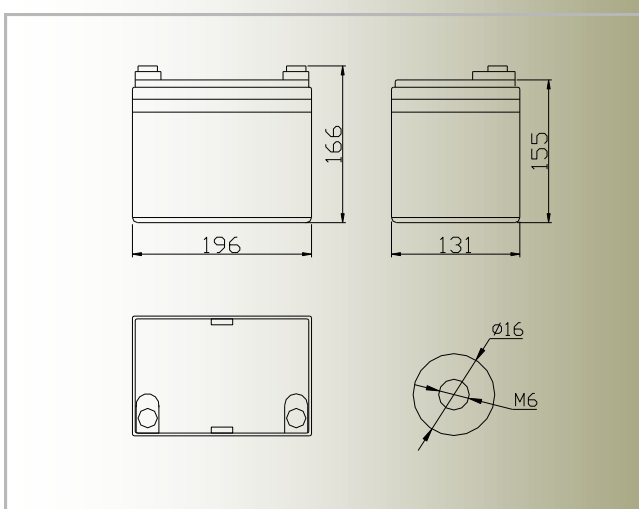
Designed lifetime is 8~10 years in 20-25°C working conditions (according to EUROBAT).



Specification

Nominal voltage	12V
Nominal capacity	33.0 Ah
Dimensions	Length 196 mm
	Width 131 mm
	Height 155 mm
	Total height 166 mm
Case material ABS/(UL94-HB) UL94-V0 optional	
Weight	10.0 kg

Dimensions

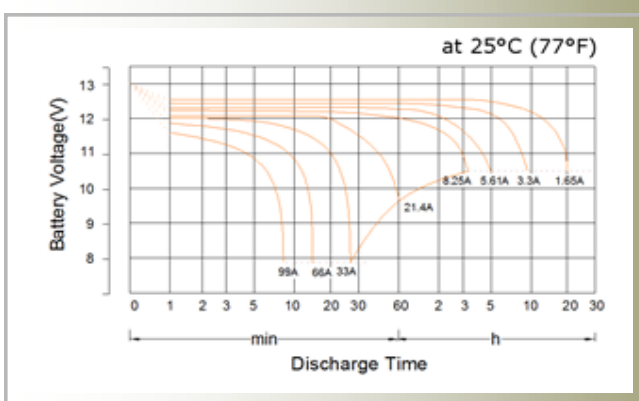


Characteristic

Capacity at 25°C and 10.0V cut off voltage	20h	33.0 Ah
	5h	28.0 Ah
	1h	21.4 Ah
Internal resistance	Fully charged	11.0 mΩ
Capacity	for 20°C	100%
	for 0°C	85%
	for -15°C	65%
Self discharge	3 months	91%
	6 months	82%
	12 months	64%
Terminal	M6	
Charging	Buffer	13.50-13.80V
	Cyclical	14.40-15.00V
Max. charging current	10.2 A	
Max. discharge current	320 A (5 sec.)	

Working temperature:
Discharging: -20°C ÷ 50°C
Charging: -10°C ÷ 50°C
Storing: -20°C ÷ 50°C

Discharge characteristic at 25 °C



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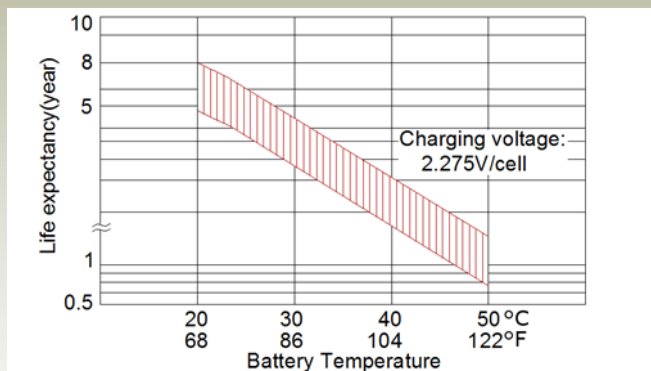
12V 33Ah

Zgodność z normami

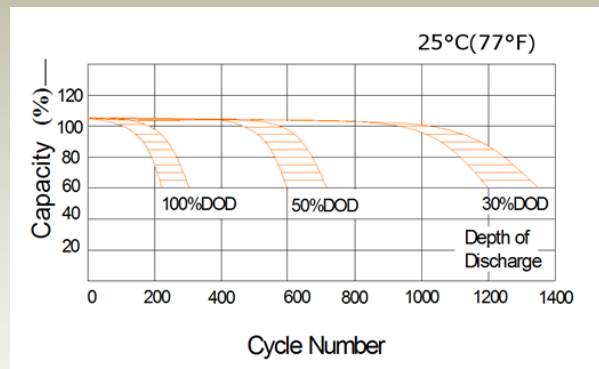
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Battery life for buffer work



Battery life for cyclic work



Constant current discharge characteristics (A, 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	116	92.4	66.0	37.9	27.1	21.4	11.6	8.32	5.68	3.73	3.10	1.69
9.90V	112	89.1	62.7	37.3	26.7	21.3	11.4	8.32	5.65	3.73	3.10	1.69
10.20V	106	82.5	59.4	36.3	26.4	21.2	11.4	8.25	5.61	3.69	3.07	1.65
10.50V	92.2	69.3	56.1	34.3	26.1	20.8	11.2	8.18	5.61	3.67	3.07	1.65
10.80V	82.5	59.4	52.8	29.7	25.7	20.4	10.9	7.90	5.54	3.67	3.00	1.62

Constant power discharge characteristics (Watt, 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	1260	1014	732	442	309	248	133	96.6	66.0	43.4	36.2	19.8
9.90V	1212	972	690	426	305	244	132	96.0	65.4	43.1	36.1	19.8
10.20V	1152	912	654	406	301	244	131	95.4	64.8	43.1	36.1	19.6
10.50V	1014	768	624	382	297	239	130	94.2	64.8	42.6	35.6	19.3
10.80V	900	696	583	331	293	236	125	91.8	64.2	42.6	35.0	18.8