GLP 12-12

Maintenance free Lead Acid VRLA AGM Battery



■Features:

- Made in VRLA technology (AGM)
- Designed for standby and cyclic use
- High Cycle Service Life, up to: 600 Cycles at 50% DOD
- Designed service life is 5 years (for 20°C)
- Compliance with standards: EN 60896-21; EN60896-22; EN 61056-1; EN 61056-2, PN-E 83016:1999

■Application:

- Supply for portable equipment
- DC power motor – cycle use
- Backup supply for heating systems

MECHANICAL SPECIFICATION

Dimensions Container material ABS (UL94-HB), optional UL94-V0	Length	151mm ±1.5mm
	Width	98.5mm ±1.5mm
	Height	96mm ±2mm
	Total height	101mm ±2mm
Terminal	B1 (standard), T1 (opcjonal)	
Weight		3.10kg ±3%

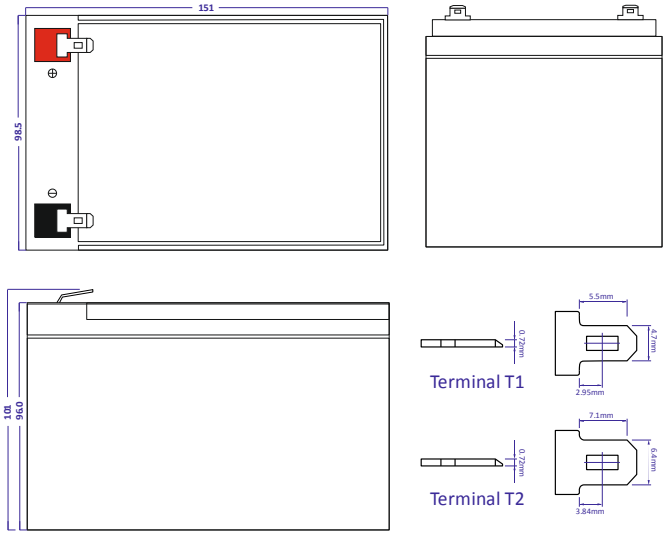
ELECTRICAL SPECIFICATION

Nominal Voltage	12V	
Capacity for 25°C and cut-off voltage 10.5V	20h	C_{NOM} = 10Ah
	10h	7.77Ah
	5h	6.60Ah
Internal Resistance	Fully charged battery at 25°C	18mΩ
Capacity Affected by Temp.	40°C	102% C_{NOM}
	25°C	100% C_{NOM}
	0°C	85% C_{NOM}
	-15°C	65% C_{NOM}
Self Discharge	3% of capacity declined per month (at 25°C)	
Charge – standby use	Voltage	13.5 ÷ 13.8VDC
	Temp compensation	-18mV/°C
Charge – cycle use	Voltage	14.4 ÷ 15VDC
	Temp compensation	-30mV/°C
Charge Current (max.)	5.0A (recommended 1.0A)	
Discharge Current (max.)	150A (5 sec)	

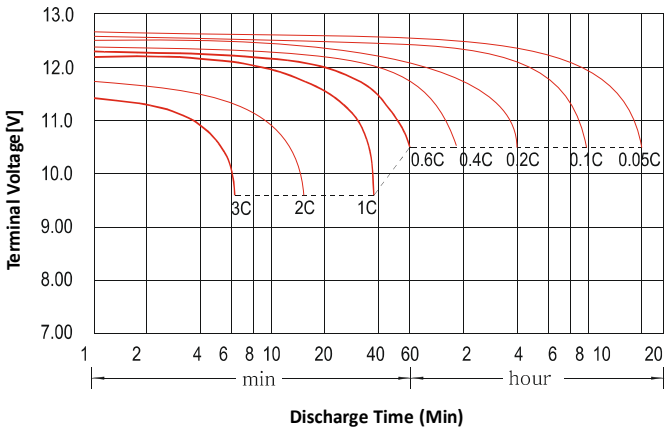
OTHERS

Working Temp	Discharging	-20°C ÷ +50°C
	Charging	-20°C ÷ +50°C
	Storage	-20°C ÷ +50°C

DIMENSIONS



DISCHARGE CURVE

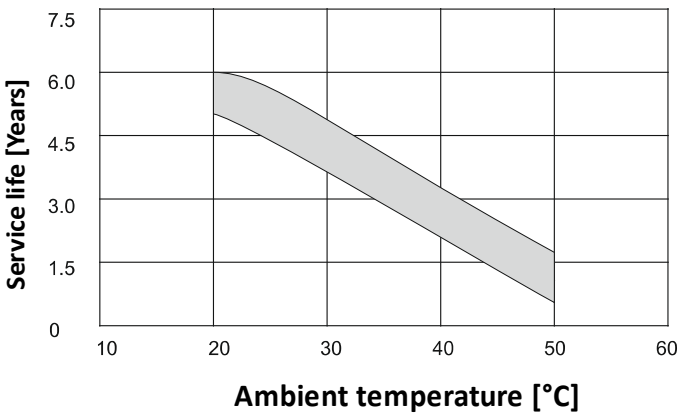


GLP 12-12

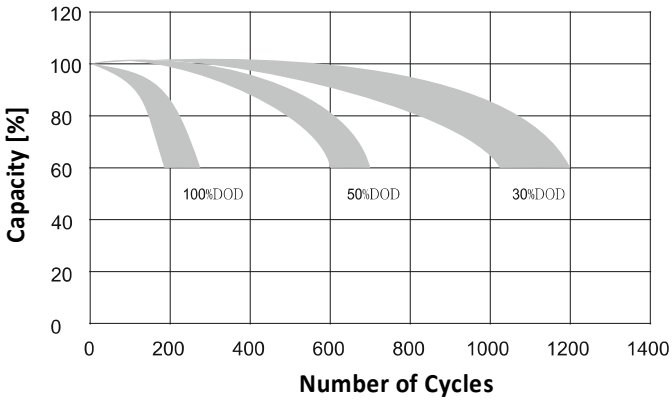
Maintenance free Lead Acid VRLA AGM Battery

GLOBAL LEADER POWER

Standby Use Service Life Curve



Cycle Service Life Curve



Constant Current Discharge [A, 25°C]												
Time / Cut-off Voltage	5 min	10 min	15 min	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	10 Hr	20 Hr
1.60 V/cell	39.6	25.9	19.3	12.7	6.60	3.78	2.76	2.21	1.88	1.24	0.993	0.532
1.65 V/cell	39.3	24.8	17.7	12.0	6.20	3.63	2.68	2.14	1.84	1.22	0.981	0.523
1.70 V/cell	32.2	23.3	16.5	11.6	6.00	3.56	2.63	2.03	1.82	1.20	0.965	0.512
1.75 V/cell	29.9	22.2	15.4	11.4	5.79	3.47	2.59	2.00	1.74	1.17	0.942	0.500
1.80 V/cell	27.5	20.9	14.3	11.0	5.59	3.38	2.45	1.96	1.67	1.14	0.921	0.484

Constant Power Discharge [W, 25°C]												
Time / Cut-off Voltage	5 min	10 min	15 min	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	10 Hr	20 Hr
1.60 V/cell	74.3	46.7	35.3	21.4	12.1	7.08	5.22	4.18	3.55	2.34	1.92	1.05
1.65 V/cell	68.5	44.2	33.2	21.3	11.4	6.82	5.07	4.05	3.48	2.31	1.88	1.02
1.70 V/cell	62.7	42.8	31.7	21.2	11.0	6.68	4.98	3.85	3.38	2.28	1.87	1.01
1.75 V/cell	56.8	41.5	30.5	20.9	10.7	6.53	4.92	3.80	3.32	2.19	1.82	0.992
1.80 V/cell	51.0	40.2	29.5	20.8	10.6	6.48	4.78	3.77	3.23	2.12	1.79	0.985