

GLPG 55-12

Maintenance free Lead Acid VRLA GEL Battery



■ Features:

- Made in VRLA technology (GEL)
- Designed for standby and cyclic use
- High Cycle Service Life, up to: 800 Cycles at 50% DOD
- Designed service life is 10 years (for 20°C)
- Designed to use in every equipment and vehicle with DC motor
- Compliance with standards: EN 60896-21; EN60896-22; EN 61056-1; EN 61056-2, PN-E 83016:1999

■ Application:

- DC power motor – cycle use
- Supply for portable equipment
- Uninterruptible Power Supply (UPS)

MECHANICAL SPECIFICATION

Dimensions	Length	230mm
	Width	137mm
	Height	210mm
	Total height	215mm
Container material (UL94-HB), optional UL94-V0		
Terminal	M6 Bolt	
Weight		16kg

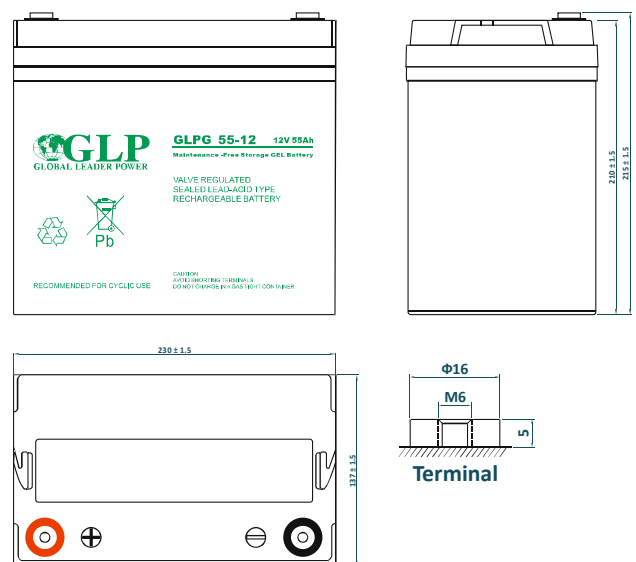
ELECTRICAL SPECIFICATION

Nominal Voltage	12V	
Capacity for 25°C and cut-off voltage 10.5V	20h	$C_{NOM} = 53Ah$
	5h	47.75Ah
	1h	31.96Ah
Internal Resistance	Fully charged battery at 25°C	5.9mΩ
Capacity Affected by Temp.	+20°C	100% C_{NOM}
	0°C	85% C_{NOM}
	-15°C	65% C_{NOM}
Self Discharge	3 months	91% C_{NOM}
	6 months	82% C_{NOM}
	12 months	64% C_{NOM}
Charge – standby use	Voltage	13.5 ÷ 13.8VDC
	Temp compensation	-20mV/°C
Charge – cycle use	Voltage	14.4 ÷ 15VDC
	Temp compensation	-30mV/°C
Charge Current (max.)	15A	
Discharge Current (max.)	550A (5sec)	

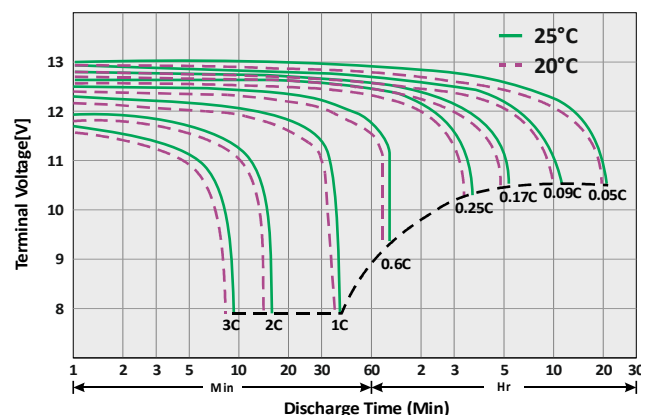
OTHERS

Working Temp	Discharging	-20°C ÷ +50°C
	Charging	-10°C ÷ +50°C
	Storage	-20°C ÷ +50°C

DIMENSIONS



DISCHARGE CURVE

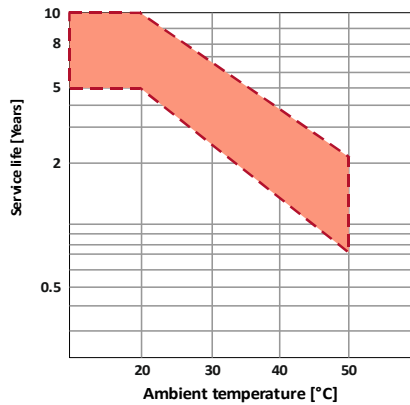


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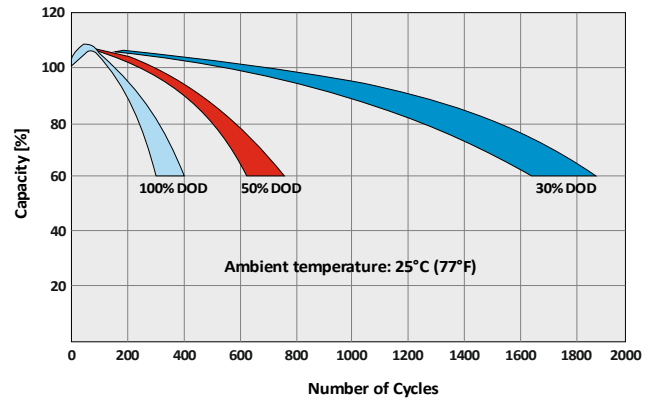
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Standby Use Service Life Curve



Cycle Service Life Curve



Constant Current Discharge [A, 25°C]												
Time	5 min	10 min	15 min	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	10 Hr	20 Hr
Cut-off Voltage												
1.85 V/cell	174.39	102.94	80.91	52.74	30.78	17.79	13.66	11.22	9.19	7.50	4.91	2.55
1.80 V/cell	177.72	104.91	82.45	53.75	31.37	18.13	13.92	11.43	9.37	7.64	5.00	2.60
1.75 V/cell	181.05	106.88	84.00	54.76	31.96	18.47	14.19	11.65	9.55	7.78	5.10	2.65
1.70 V/cell	197.34	113.29	89.04	56.94	35.52	18.80	14.44	11.85	9.71	7.92	5.19	2.70
1.65 V/cell	217.26	122.91	96.60	60.12	32.87	19.00	14.56	11.98	9.82	8.00	5.25	2.73

Constant Power Discharge [W, 25°C]												
Time	5 min	10 min	15 min	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	10 Hr	20 Hr
Cut-off Voltage												
1.85 V/cell	340.05	200.74	157.77	102.84	60.02	34.70	26.64	21.88	17.93	14.62	9.58	4.98
1.80 V/cell	346.55	204.57	160.79	104.81	61.17	35.36	27.15	22.30	18.27	14.90	9.75	5.08
1.75 V/cell	353.04	208.41	163.80	106.77	62.32	36.02	27.66	22.71	18.61	15.17	9.95	5.17
1.70 V/cell	384.82	220.91	173.63	111.03	63.41	36.66	28.15	23.11	18.94	15.44	10.12	5.26
1.65 V/cell	423.65	239.67	188.37	117.24	64.09	37.05	28.45	23.36	19.14	15.61	10.23	5.23