

GLPG 80-12

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	260mm
	Width	167mm
	Height	211mm
	Total height	216mm
Container material (UL94-HB), optional UL94-V0		
Terminal	M8 Bolt	
Weight		22kg

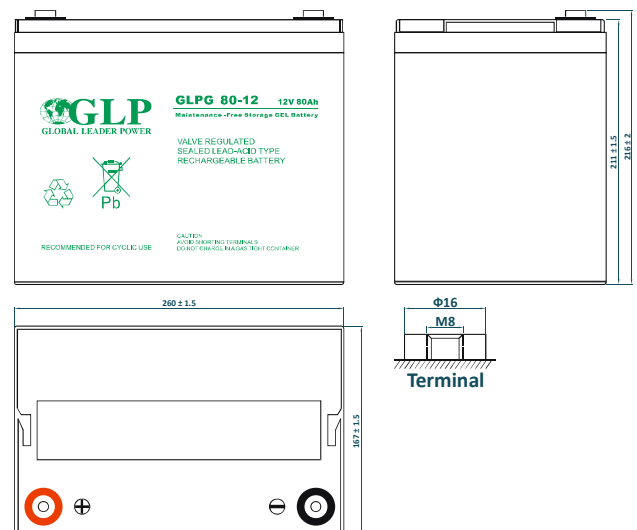
ELECTRICAL SPECIFICATION

Nominal Voltage	12V	
Capacity for 25°C and cut-off voltage 10.5V	20h	$C_{NOM} = 81Ah$
	5h	72.92Ah
	1h	48.86Ah
Internal Resistance	Fully charged battery at 25°C 4.5mΩ	
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	13.6 ÷ 13.8VDC
	Temp compensation	-20mV/°C
Charge – cycle use	Voltage	14.4 ÷ 14.6VDC
	Temp compensation	-30mV/°C
Charge Current (max.)	22.5A	
Discharge Current (max.)	800A (5sec)	

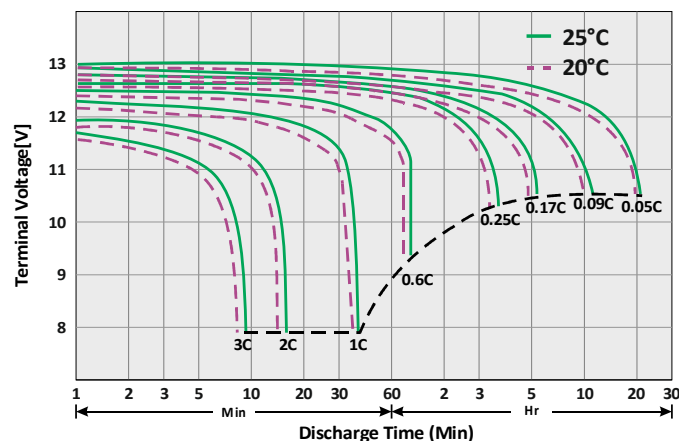
OTHERS

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

DIMENSIONS



DISCHARGE CURVE

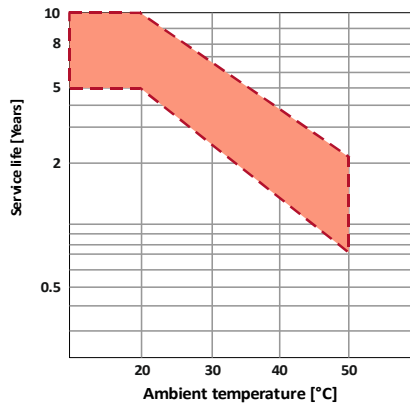


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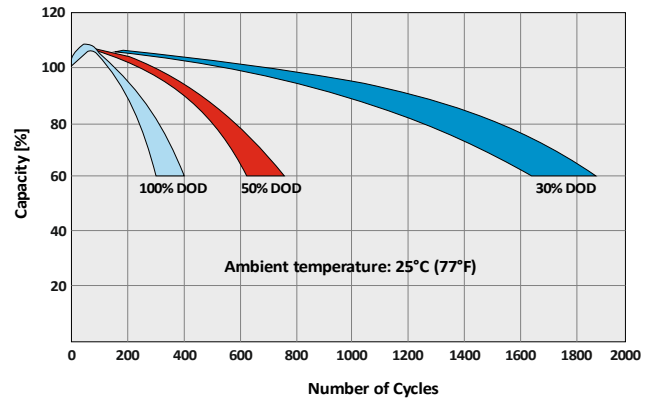
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Standby Use Service Life Curve



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	266.61	157.38	123.70	80.63	47.06	27.20	20.89	17.15	14.06	11.46	7.37	3.91
1.80 V/cell	271.70	160.39	126.06	82.17	47.96	27.72	21.29	17.48	14.33	11.68	7.50	3.98
1.75 V/cell	276.80	163.40	128.42	83.71	48.86	28.24	21.69	17.81	14.59	11.90	7.65	4.05
1.70 V/cell	301.71	173.20	136.13	87.05	49.72	28.74	22.07	18.12	14.85	12.11	7.78	4.13
1.65 V/cell	332.15	187.91	147.69	91.92	50.25	29.05	22.31	18.32	15.01	12.24	7.87	4.17

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	519.89	306.90	241.21	157.23	91.76	53.05	40.73	33.45	27.41	22.35	14.37	7.62
1.80 V/cell	529.82	312.76	245.82	160.24	93.52	54.04	41.51	34.09	27.93	22.77	14.63	7.76
1.75 V/cell	539.75	318.62	250.42	163.24	95.27	55.07	42.29	34.73	28.46	23.20	14.92	7.91
1.70 V/cell	588.33	337.74	265.45	169.75	96.95	56.04	43.03	35.34	28.96	23.61	15.81	8.05
1.65 V/cell	647.70	366.42	287.99	179.24	97.99	56.64	43.50	35.72	29.27	23.86	15.34	8.13