

GLPG 150-12

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	486mm
	Width	171mm
	Height	243mm
	Total height	243mm
Container material (UL94-HB), optional UL94-V0		
Terminal	M8 Bolt	
Weight		42.3kg

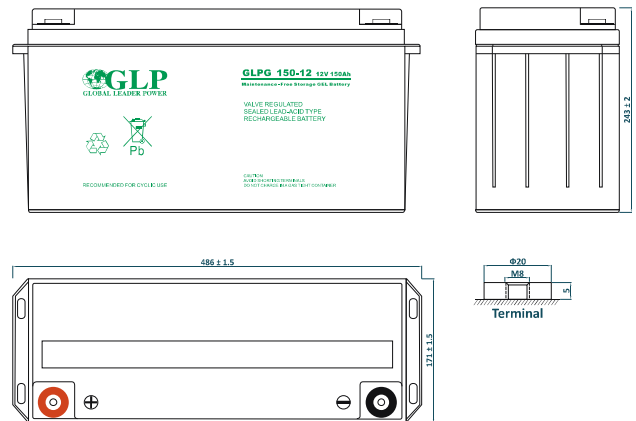
ELECTRICAL SPECIFICATION

Nominal Voltage	12V	
Capacity for 25°C and cut-off voltage 10.5V	20h	C _{NOM} = 151.6Ah
	5h	123.45Ah
	1h	83.5Ah
Internal Resistance	Fully charged battery at 25°C	6.3mΩ
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.)	36A	
Discharge Current (max.)	1500A (5sec)	

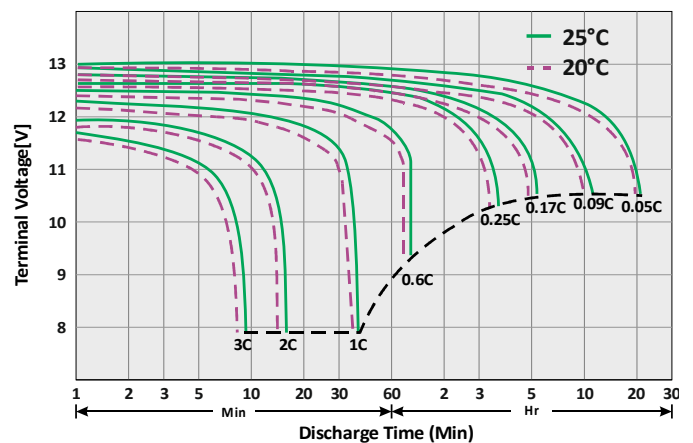
OTHERS

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

DIMENSIONS



DISCHARGE CURVE

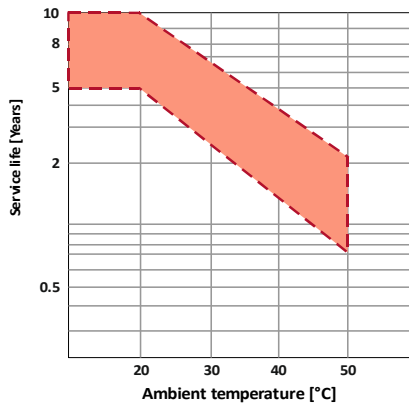


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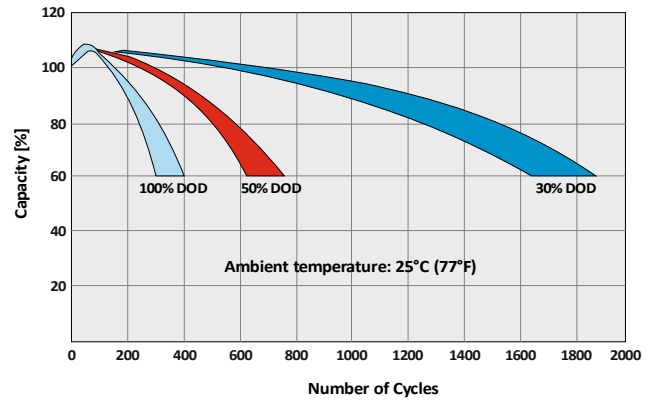
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Standby Use Service Life Curve



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	339.0	249.7	216.7	130.8	77.0	45.4	33.8	28.51	23.47	21.60	14.40	7.20
1.80 V/cell	351.9	259.2	225.0	135.8	80.3	47.3	35.3	29.70	24.45	22.50	15.00	7.50
1.75 V/cell	387.1	272.2	236.3	141.2	83.5	48.7	36.3	30.00	24.69	22.73	15.15	7.58
1.70 V/cell	432.8	285.1	247.5	148.0	85.1	49.6	37.0	30.29	24.94	22.95	15.30	7.65
1.65 V/cell	478.6	298.1	258.8	152.0	88.3	51.0	38.1	30.59	25.18	23.18	15.45	7.73

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	644.0	474.4	411.8	248.4	146.4	86.2	64.3	54.17	44.60	41.04	27.36	13.68
1.80 V/cell	668.6	492.5	427.5	257.9	152.5	89.8	67.0	56.43	46.46	42.75	28.50	14.25
1.75 V/cell	735.5	517.1	448.9	268.2	158.6	92.5	69.0	56.99	46.92	43.18	28.79	14.39
1.70 V/cell	822.4	541.7	470.3	281.1	161.6	94.3	70.3	57.56	47.38	43.61	29.07	14.54
1.65 V/cell	909.3	566.4	491.6	288.9	167.7	97.0	72.3	58.12	47.85	44.03	29.36	14.68