

GLPG 100-12

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	330mm
	Width	173mm
	Height	215mm
	Total height	220mm
Container material ABS (UL94-HB), optional UL94-V0		
Terminal	M8 Bolt	
Weight		30.8kg

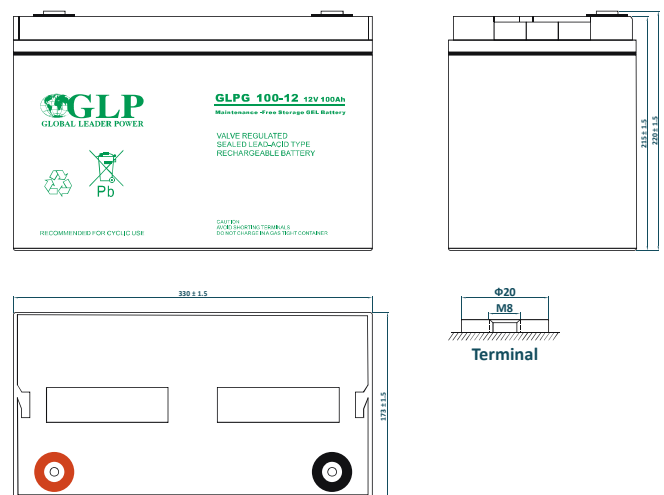
ELECTRICAL SPECIFICATION

Nominal Voltage	12V	
Capacity for 25°C and cut-off voltage 10.5V	20h	C _{NOM} = 104Ah
	5h	83Ah
	1h	59Ah
Internal Resistance	Fully charged battery at 25°C	6.5mΩ
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.)	28A	
Discharge Current (max.)	1000A (5sec)	

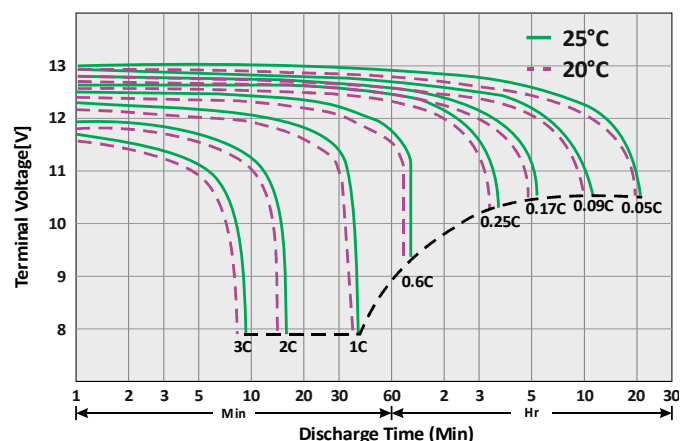
OTHERS

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

DIMENSIONS



DISCHARGE CURVE

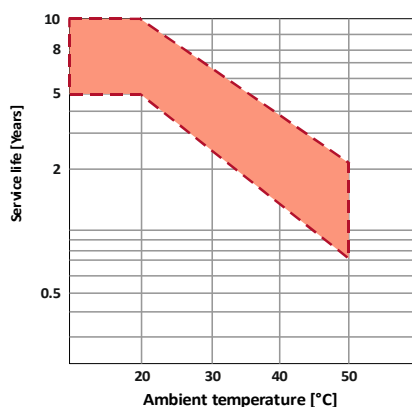


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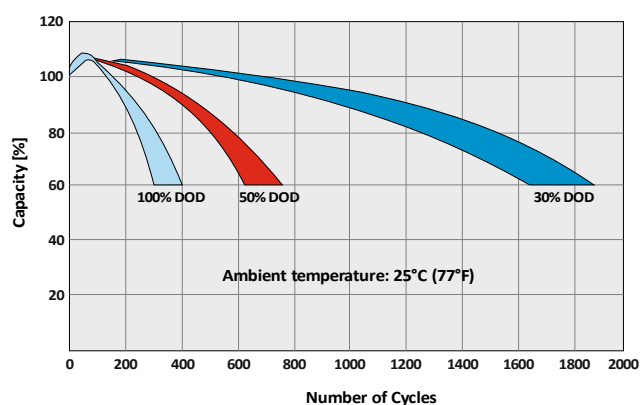
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Standby Use Service Life Curve



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	209.0	160.0	135.0	98.0	56.0	33.30	23.90	19.70	16.20	11.41	9.80	4.85
1.80 V/cell	259.0	205.0	164.0	105.0	58.0	34.50	25.30	20.80	16.30	11.92	10.0	5.0
1.75 V/cell	266.0	224.0	171.0	108.0	59.0	36.80	25.80	21.30	16.60	12.12	10.10	5.20
1.70 V/cell	284.0	230.0	176.0	110.0	60.0	37.10	26.30	21.30	16.60	12.20	10.20	5.30
1.65 V/cell	318.0	242.0	183.0	114.0	62.0	37.60	27.10	21.80	17.10	12.42	10.40	5.50

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	397.1	304.0	256.5	186.2	106.4	63.3	45.4	37.4	30.8	21.7	18.6	9.2
1.80 V/cell	492.1	389.5	311.6	199.5	110.2	65.6	48.1	39.5	31.0	22.6	19.0	9.5
1.75 V/cell	505.4	425.6	324.9	205.2	112.1	69.9	50.0	40.5	31.5	23.0	19.2	9.9
1.70 V/cell	539.6	437.0	334.4	209.0	114.0	70.5	50.0	40.5	31.5	23.2	19.4	10.1
1.65 V/cell	604.2	459.8	347.7	216.6	117.8	71.4	51.5	41.4	32.5	23.6	19.8	10.5