

GLPG 200-12

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	523mm
	Width	240mm
	Height	220mm
	Total height	225mm
Container material	ABS (UL94-HB), optional UL94-V0	
Terminal	M8 Bolt	
Weight	58.5kg	

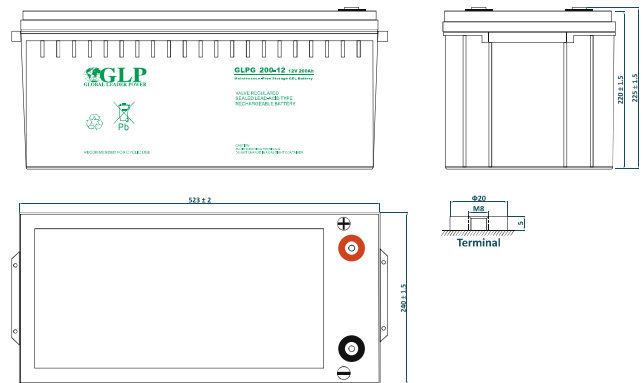
ELECTRICAL SPECIFICATION

Nominal Voltage	12V	
Capacity for 25°C and cut-off voltage 10.5V	20h	C _{NOM} = 202Ah
	5h	170Ah
	1h	115.8Ah
Internal Resistance	Fully charged battery at 25°C 4mΩ	
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.)	60A	
Discharge Current (max.)	2000A (5sec)	

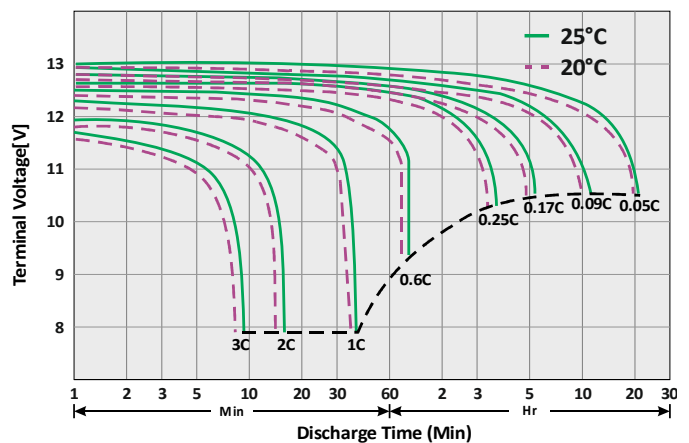
OTHERS

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

DIMENSIONS



DISCHARGE CURVE

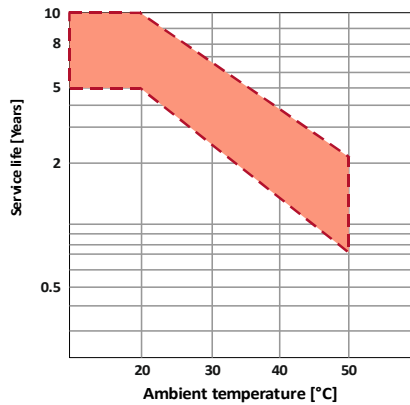


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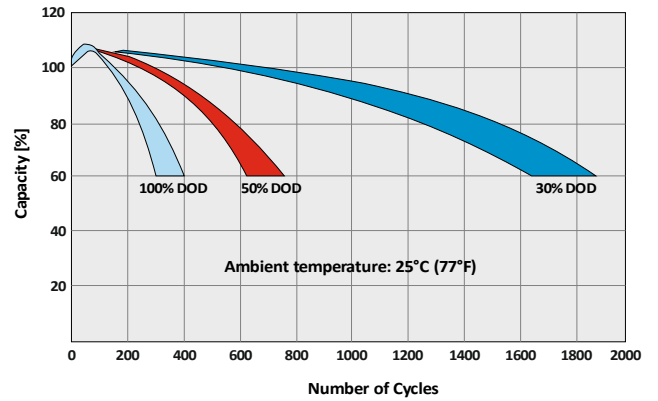
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Standby Use Service Life Curve



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	555.5	418.3	300.9	181.2	108.9	63.6	48.4	38.5	32.0	21.7	17.5	9.4
1.80 V/cell	585.1	440.6	316.9	190.8	114.6	67.0	51.0	40.5	33.7	22.9	18.7	10.0
1.75 V/cell	591.0	445.0	320.1	192.7	115.8	67.7	51.5	40.9	34.0	23.1	18.8	10.1
1.70 V/cell	598.8	450.9	324.3	195.3	117.3	68.5	52.2	41.5	34.4	23.4	18.9	10.1
1.65 V/cell	602.8	453.9	326.5	196.6	118.1	69.0	52.5	41.7	34.7	23.6	19.0	10.2

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	1055.5	794.8	571.7	344.2	206.8	120.8	92.0	73.1	60.7	41.3	33.3	17.9
1.80 V/cell	1111.7	837.0	602.1	362.5	217.8	127.3	96.9	77.0	63.9	43.5	35.1	18.8
1.75 V/cell	1122.9	845.5	608.2	366.2	220.0	128.5	97.8	77.8	64.6	43.9	35.4	19.0
1.70 V/cell	1137.7	856.7	616.2	371.0	222.9	130.2	99.1	78.8	65.4	44.5	35.9	19.3
1.65 V/cell	1145.2	862.3	620.3	373.5	224.4	131.1	99.8	79.3	65.9	44.8	36.1	19.4