

GLPG 120-12

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	406mm
	Width	173mm
	Height	207mm
	Total height	236mm
Container material ABS (UL94-HB), optional UL94-V0		
Terminal	M8 Bolt	
Weight		36kg

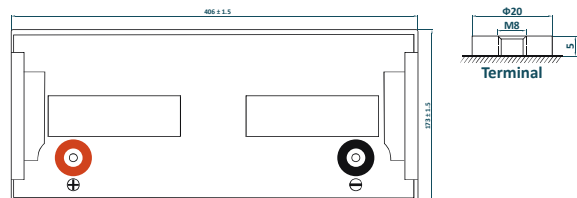
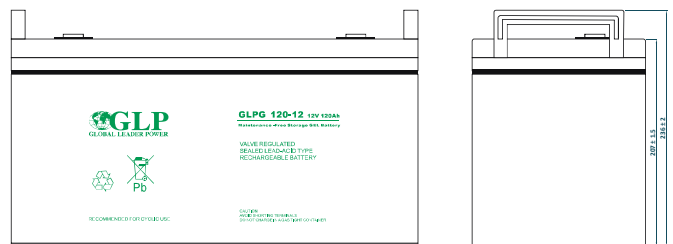
ELECTRICAL SPECIFICATION

Nominal Voltage	12V	
Capacity for 25°C and cut-off voltage 10.5V	20h	$C_{NOM} = 121.2Ah$
	5h	98.5Ah
	1h	66.8Ah
Internal Resistance	Fully charged battery at 25°C	6mΩ
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.)	1200A (5sec)	

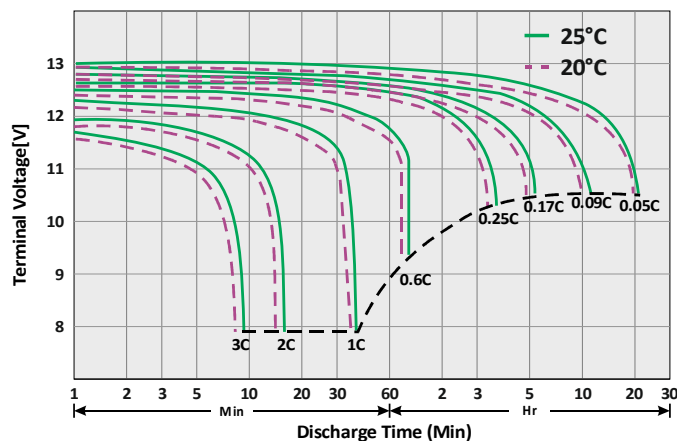
OTHERS

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

DIMENSIONS



DISCHARGE CURVE

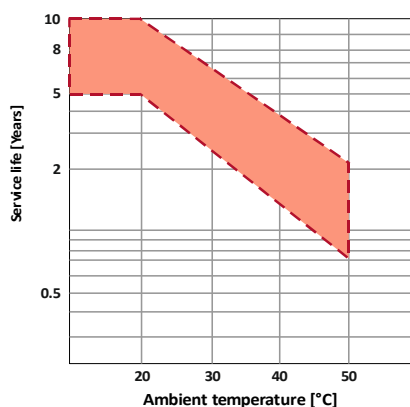


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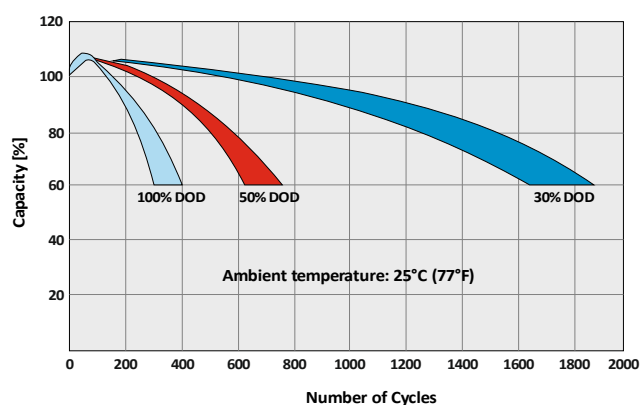
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Standby Use Service Life Curve



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	271.2	199.7	173.4	104.6	61.6	36.3	27.1	22.81	18.78	17.28	11.52	5.88
1.80 V/cell	281.5	207.4	180.0	108.6	64.2	37.8	28.2	23.76	19.56	18.00	12.00	6.00
1.75 V/cell	309.7	217.7	189.0	112.9	66.8	38.9	29.0	24.00	19.76	18.18	12.12	6.06
1.70 V/cell	346.3	228.1	198.0	118.4	68.1	39.7	29.6	24.24	19.95	18.36	12.24	6.12
1.65 V/cell	382.9	238.5	207.0	121.6	70.6	40.8	30.5	24.47	20.15	18.54	12.36	6.18

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	515.2	379.5	329.4	198.7	117.1	68.9	51.4	43.34	35.68	32.83	21.89	11.16
1.80 V/cell	534.9	394.0	342.0	206.3	122.0	71.8	53.6	45.14	37.16	34.20	22.80	11.40
1.75 V/cell	588.4	413.7	359.1	214.6	126.9	74.0	55.2	45.60	37.54	34.54	22.03	11.51
1.70 V/cell	657.9	433.4	376.2	224.9	129.3	75.4	56.3	46.05	37.91	34.88	23.26	11.63
1.65 V/cell	727.4	453.1	393.3	23.1	134.2	77.6	57.9	46.50	38.28	35.23	23.48	11.74