GLP 18-12

Maintenance free Lead Acid VRLA AGM Battery



■ Features:

- Made in VRLA technology (AGM)
- Dedicated to both buffer and cyclic operation
- High Cycle Service Life (500 work cycles for 50% discharge)
- Designed service life is 6-9 years (for 20°C)
- Compilance with standards: EN 60896-21; EN60896-22; EN 61056-1; EN 61056-2, PN-E 83016:1999

■ Application:

- The source of energy in portable devices
- Powering motors and other devices in cyclic operation
- Backup CO

MECHANICAL SPECIFICATION

Dimensions **Container ABS (UL94-HB), optional UL94-V0**	**Lenght**	181mm ±1.5mm
	Width	77mm ±1.5mm
	Height	167mm ±2mm
	Total height	167mm ±2mm
Terminal	**B1 (standard), T1 (optional)**	
Weight		4.90kg ±3%

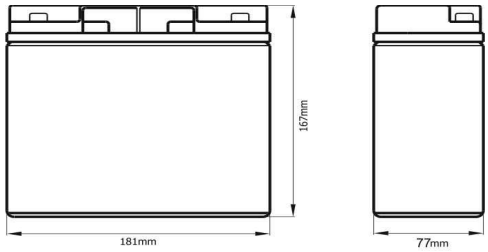
ELECTRICAL SPECIFICATION

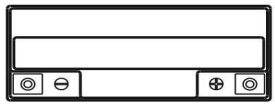
Nominal Voltage	**12V**	
Nominal Capacity *(25°C, U_{KON}=10.5V)*	**20h**	C_{NOM} = 18Ah
	10h	16.1Ah
	5h	14.45Ah
	1h	9.84Ah
Internal Resustance	**Fully charged battery**	17mΩ
Capacity depending on the ambient temperature	**40°C**	102% C_{NOM}
	25°C	100% C_{NOM}
	0°C	85% C_{NOM}
	-15°C	65% C_{NOM}
Self Discharge	**2% of capacity declined per month**	
Charge – buffor use	**Voltage**	13.5 ÷ 13.8VDC
	Temp compensation	-20mV/°C
Charge – cycle use	**Voltage**	14.4 ÷ 15VDC
	Temp compensation	-30mV/°C
Charge Current (max.)	5.0A	
Discharge Current (max.)	170A (for 5sec)	

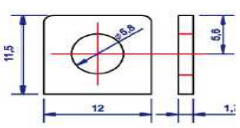
OTHERS

Working temp	**Discharge**	-20°C ÷ +50°C
	Charging	-10°C ÷ +50°C
	Storage	-20°C ÷ +50°C

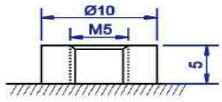
DIMENSIONS





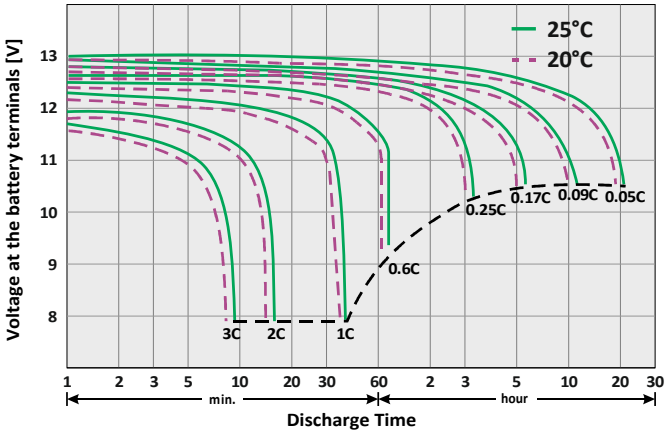


T1 Terminal



B1 Terminal

DISCHARGE CURVE

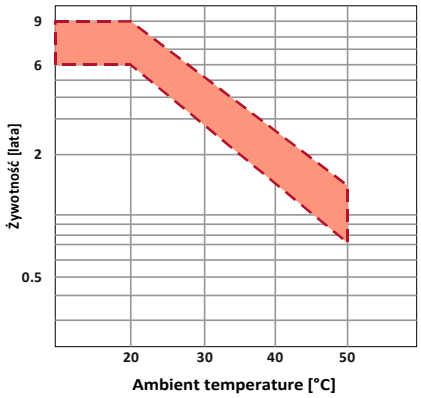


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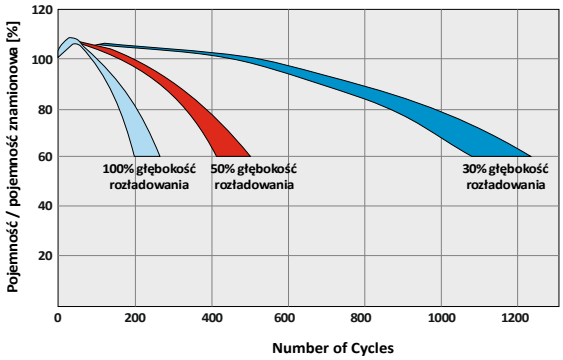
Maintenance free Lead Acid VRLA AGM Battery

GLOBAL LEADER POWER

BATTERY LIFE DEPENDING ON THE AMBIENT TEMPERATURE for buffor work



BATTERY LIFE DEPENDING ON THE DEPTH OF DISCHARGE for cyclic work



Constant Current Discharge [A, 25°C]												
Time / Cut-off Voltage	5 min	10 min	15 min	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	10 Hr	20 Hr
1.80 V/cell	55.29	38.16	26.43	16.39	9.66	5.65	4.3	3.415	2.836	2.423	1.580	0.834
1.75 V/cell	56.33	38.88	26.92	16.70	9.84	5.75	4.38	3.479	2.889	2.469	1.610	0.850
1.70 V/cell	58.02	40.05	28.54	17.37	10.02	5.85	4.45	3.540	2.940	2.512	1.638	0.865
1.67 V/cell	59.71	41.21	30.96	18.34	10.12	5.91	4.50	3.578	2.972	2.539	1.656	0.874
1.60 V/cell	61.40	42.38	32.58	19.12	10.23	5.98	4.55	3.616	3.004	2.566	1.674	0.884

Constant Power Discharge [W, 25°C]												
Time / Cut-off Voltage	5 min	10 min	15 min	30 min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	10 Hr	20 Hr
1.80 V/cell	107.8	74.42	51.53	31.97	18.84	11.01	8.38	6.66	5.53	4.73	3.08	1.63
1.75 V/cell	190.8	75.81	52.50	32.56	19.19	11.21	8.53	6.78	5.63	4.81	3.14	1.66
1.70 V/cell	113.1	78.09	55.65	33.86	19.53	11.41	8.68	6.90	5.73	4.90	3.19	1.69
1.67 V/cell	116.4	80.36	60.37	35.76	19.74	11.53	8.78	6.98	5.79	4.95	3.23	1.70
1.60 V/cell	119.7	82.64	63.52	37.29	19.95	11.66	8.87	7.05	5.86	5.00	3.26	1.72