MWLD 7.2-12

VRLA AGM Battery 12V/7.2Ah



■ Features:

- VRLA (AGM) technology –maintenance-free
- Dedicated to standby and cyclic operation
- High corrosion resistant performance: Pb-Ca multi-alloy grid
- Designed service life 9-12 years to range of 20-25 C

■ Application:

- Emergency power supply (UPS, emergency lighting)
- Telecommunications system

ELECTRICAL SPECIFICATION

Nominal voltage	**12V**			
Rated capacity	**20hr**	**C_{20} = 7.2Ah ± 4%**	**I_{20} = 0.35A**	**U_{20} = 10.5V**
	3hr	**C_3 = 5.43Ah ± 4%**	**I_3 = 1.81A**	**U_3 = 10.5V**
	1hr	**C_1 = 4.62Ah ± 4%**	**I_1 = 4.62A**	**U_1 = 9.60V**

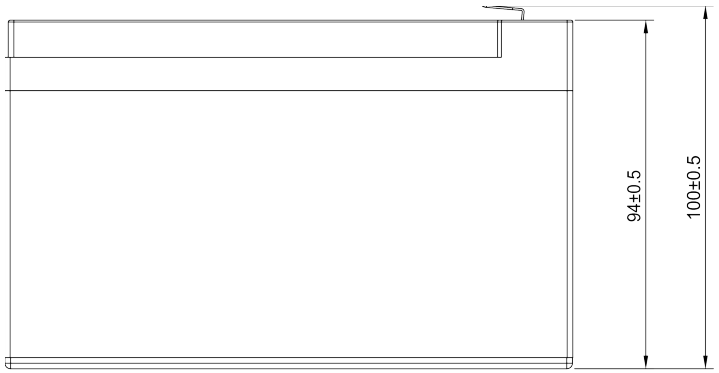
Internal resistance	**Fully charged**	< 30mΩ
Self-discharge (25°C)	**1 month**	3%
Float charge	**Charge voltage**	13.5 ÷ 13.8VDC, 13.8V (recom.)
	Temperature compensation	-18mV/°C
Cycle charge	**Charge voltage**	14.4 ÷ 15.0VDC, 14.7V (recom.)
	Temperature compensation	-30mV/°C
Charge current	1.75A (max.)	0.70A (recom.)
Discharge current (max.)	105A (5s)	

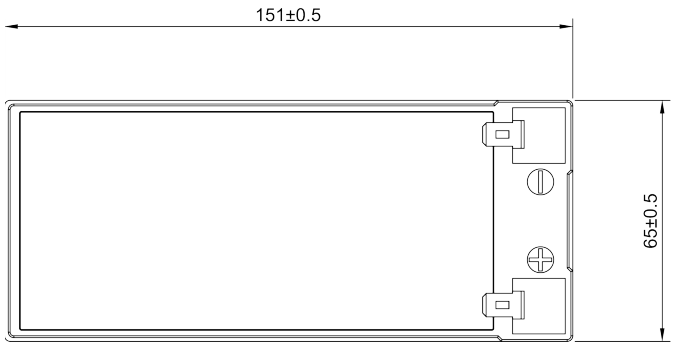
OPERATING TEMPERATURE RANGE

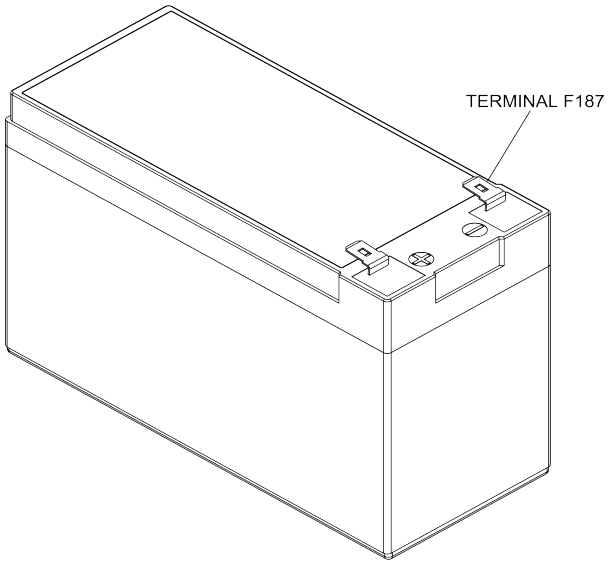
Discharge	-20°C ÷ +50°C
Charge	-20°C ÷ +50°C
Storage	-20°C ÷ +50°C

MECHANICAL SPECIFICATION

Dimensions (Container ABS)	**Length (L)**	151 ± 0.5mm
	Width (W)	65 ± 0.5mm
	Height (H1)	94 ± 0.5mm
	Total height (H2)	100 ± 0.5mm
Netto weight	2.00kg (± 5%)	
Terminal	FASTON 187	







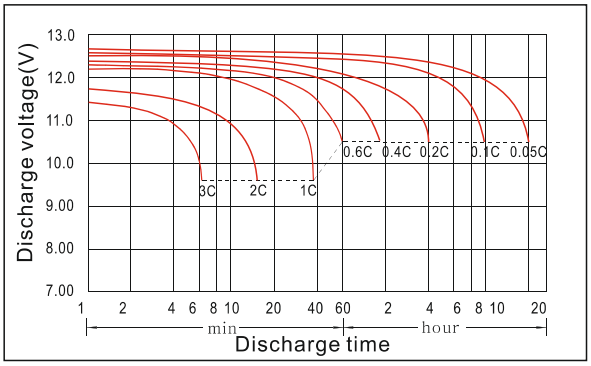
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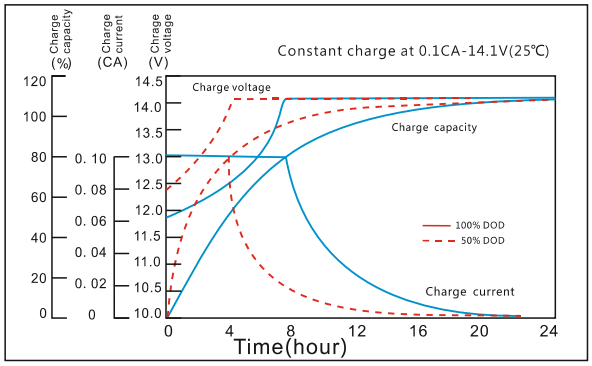
Cut off voltage	CONSTANT CURRENT DISCHARGE CHARACTERISTICS [A] (25°C)											
	5'	10'	15'	30'	1h	2h	3h	4h	5h	8h	10h	20h
9.6V	27.7	18.1	13.5	8.86	4.62	2.65	1.93	1.55	1.32	0.868	0.693	0.371
9.9V	27.5	17.4	12.4	8.41	4.34	2.54	1.88	1.50	1.29	0.854	0.686	0.364
10.2V	22.5	16.3	11.6	8.15	4.20	2.49	1.84	1.42	1.27	0.840	0.672	0.357
10.5V	20.9	15.5	10.8	7.96	4.05	2.43	1.81	1.40	1.22	0.819	0.658	0.350
10.8V	19.3	14.6	10.0	7.70	3.91	2.37	1.72	1.37	1.17	0.798	0.644	0.336

Cut off voltage	CONSTANT POWER DISCHARGE CHARACTERISTICS [W] (25°C)											
	5'	10'	15'	30'	1h	2h	3h	4h	5h	8h	10h	20h
9.6V	52.0	32.7	24.7	15.0	8.47	4.96	3.65	2.93	2.49	1.64	1.34	0.735
9.9V	48.0	30.9	23.2	14.9	7.97	4.77	3.55	2.84	2.44	1.61	1.32	0.715
10.2V	43.9	30.0	22.2	14.8	7.72	4.68	3.49	2.70	2.37	1.60	1.31	0.709
10.5V	39.8	29.1	21.4	14.7	7.50	4.57	3.44	2.66	2.32	1.53	1.28	0.694
10.8V	35.7	28.1	20.4	14.5	7.40	4.54	13.35	2.64	2.26	1.48	1.25	0.690

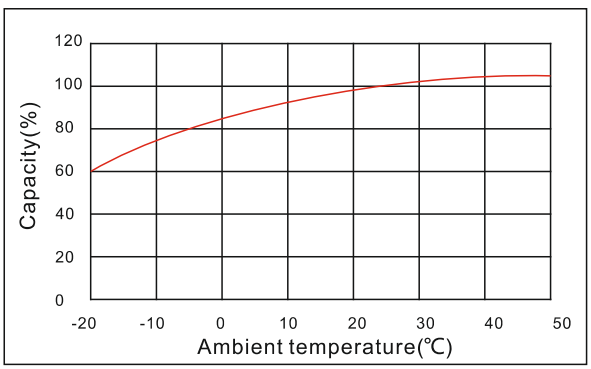
DISCHARGE CHARACTERISTIC



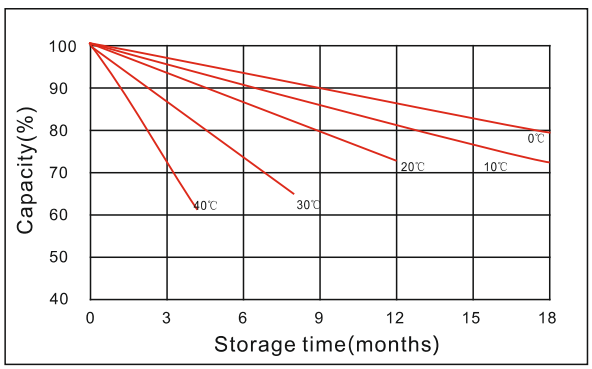
CHARGING CHARACTERISTIC



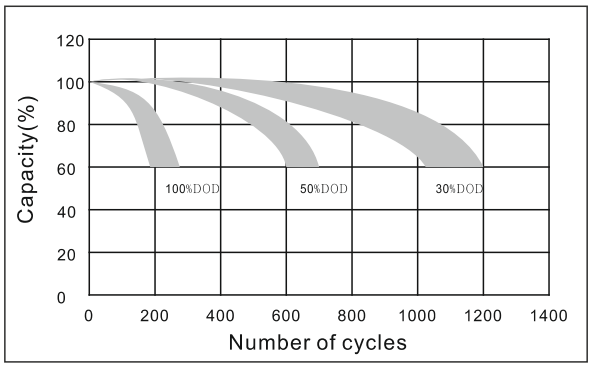
THE EFFECT OF TEMPERATURE ON CAPACITY



CURVES OF SELF-DISCHARGE



THE EFFECT OF DISCHARGE DEPTH ON CYCLE LIFE



THE EFFECT OF TEMPERATURE ON FLOAT LIFE

