MXL 55-12

VRLA – AGM Battery (12V/55,0Ah)

Application

- UPS
- Telecom DC power systems
- Fire protection systems
- Alarm and access control systems
- Uniterruptible power supply for automation and control devices
- Emergency lighting
- Portable devices

Specification

Nominal voltage	12V
Nominal capacity (25°C at 10,8V/battery block)	20h: 58,8Ah 10h: 55,0Ah 5h: 46,8Ah 1h: 33,8Ah
Designed lifetime (20°C)	10-12 years
Dimensions	Length: 228 ± 2mm Width: 137 ± 2mm Height: 210 ± 2mm Total height:: 216 ± 2mm
Weight	17,7kg
Connectors	B6 (M6 bolt)
Container material	ABS
Max. discharge current	660A (5s)
Internal resistance	7,5mΩ
Ambient temp. range	Discharging: -20°C to 55°C Charging: 0°C to 50°C (recommended 0°C to 40°C) Storage: -15°C to 50°C (recommended -5°C to 40°C)
Optimum operating temperature	20 to 25°C
Maximum charging current	16,5A
Cycle Use	Charging voltage: 14,4V to 15,0V in 25°C. Temperature correction: -30mV/°C
Standby Use	Charging voltage: 13,56V (recommended) to 14,16V (bulk charging) in 25°C. Charging voltage: -18mV/°C
Influence of temperature on capacity	103% for 40°C, 100% for 25°C, 86% for 0°C

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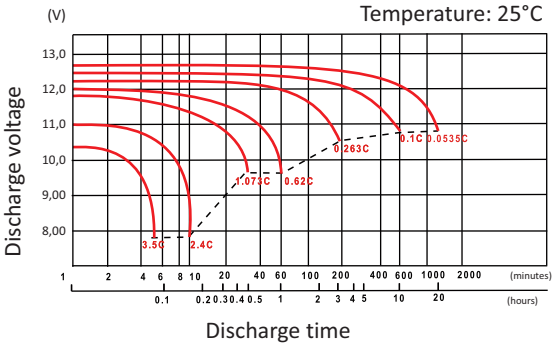
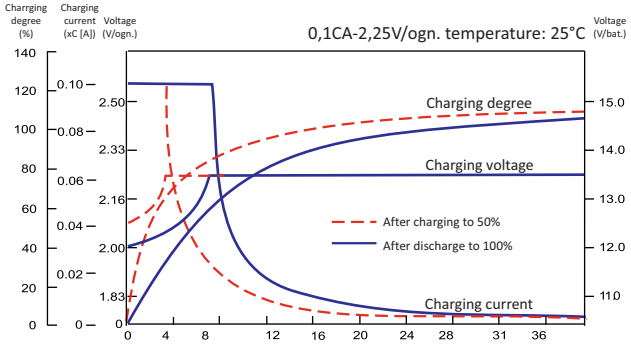
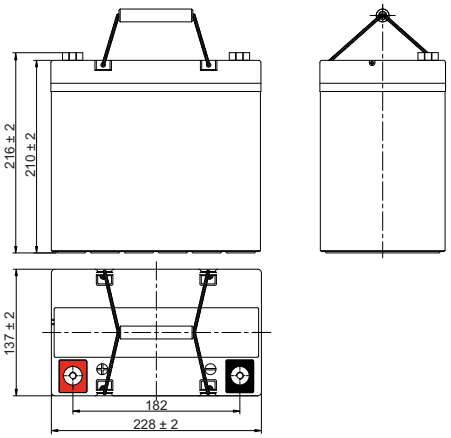
Discharging characteristics



Charging characteristics (floating mode)

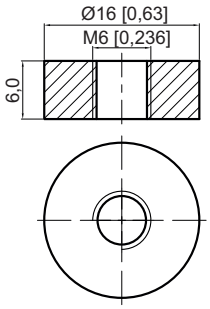


Dimensions



Connectors

Type B6:



Constant-current characteristics (A in 25°C)

U (V/bat.)	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
11,1	119,00	92,76	79,48	56,21	32,08	19,41	12,80	10,50	8,82	6,20	5,33	2,84
10,8	139,29	103,75	88,61	60,04	33,76	20,31	13,80	11,10	9,35	6,52	5,50	2,94
10,5	153,56	113,18	95,63	60,77	34,41	20,59	14,30	11,50	9,57	6,74	5,65	3,02
10,2	170,23	122,01	99,93	60,93	34,55	20,64	15,10	12,00	10,10	7,03	5,86	3,09
9,9	174,53	125,87	101,01	61,76	34,70	20,69	15,70	12,50	10,40	7,26	6,03	3,19
9,6	178,77	131,63	102,63	62,53	34,86	20,74	16,10	12,80	10,70	7,39	6,16	3,24

Constant-power characteristics (W/battery block in 25°C)

U (V/bat.)	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
11,1	1 358,28	1 047,42	881,40	646,37	376,99	232,75	151,20	124,20	105,00	74,40	64,20	34,14
10,8	1 546,38	1 159,29	979,11	686,27	393,82	241,76	161,40	131,40	110,40	78,00	66,00	35,28
10,5	1 689,28	1 250,95	1 053,95	693,93	399,22	243,59	167,40	135,60	112,80	80,40	67,80	36,12
10,2	1 846,32	1 336,72	1 099,56	695,21	400,72	244,12	175,80	141,00	119,40	83,40	70,20	37,02
9,9	1 858,35	1 365,98	1 106,63	696,54	401,80	244,43	182,40	146,40	122,40	86,40	72,00	38,10
9,6	1 885,68	1 401,65	1 118,41	701,60	402,77	244,44	186,00	148,80	124,80	87,60	73,20	38,70

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The manufacturer reserves the right to introduce changes without notice

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