

Magellan MK12-150 Battery



MagellanEnergy

General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimised capability of instant high current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long Life

Specifications

Nominal Voltage 12V

Nominal Capacity 150Ah

Design life 10 years

Terminal M8

Approx. Weight Approx 45.0kg (99.2lbs)

Container Material ABS

Rated Capacity	150Ah	10 Hour Rate	(15.0A to 10.8V)
	121Ah	3 Hour Rate	(40.3A to 10.8V)
	98.2Ah	1 Hour Rate	(98.2A to 10.5V)

Internal Resistance Full charged at 25°C: 3.5mΩ

Max. Discharge Current 1800A (5S)

Operating Temperature

Discharge:	-20 ~ 50°C	(-4 ~ 122°F)
Charge:	-20 ~ 50°C	(-4 ~ 122°F)
Storage:	-20 ~ 50°C	(-4 ~ 122°F)

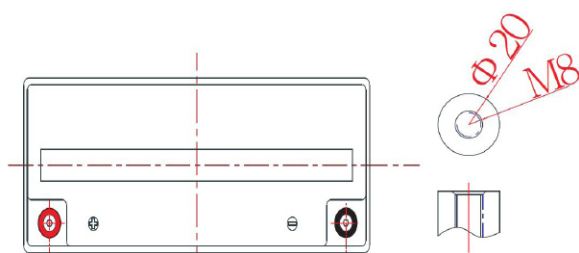
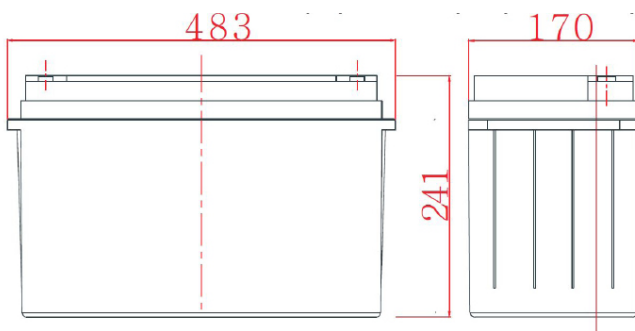
Charge Method (25°C)

Charge current: Max. 37.5A; Recom. 15A Float
Charge: 13.5-13.8V, Recom. 13.5V (-18mV/°C)
Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/°C)
Cycle Charge: 14.4-15.0V, Recom. 14.4V (-30mV/°C)

Self Discharge 3% of capacity declined per month at 25°C



Dimensions: 483mm L x 170mm W x 241mm H x241mm TH



Terminal Dimensions



RoHS



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Constant Current Discharge Characteristics Unit A (25°C, 77°F)

FV/ Time	5 min	10 min	15 min	20 min	25 min	30 min	35 min	40 min	45 min	50 min	55 min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h	24h
1.60V	529	377	284	230	191	173	155	138	127	117	109	101	72.6	57.9	48.2	42.0	33.8	28.2	23.9	20.9	18.5	16.9	15.6	13.1	8.19	6.90
1.65V	512	368	275	224	186	170	152	137	125	116	108	100	72.2	57.6	47.9	41.6	33.4	27.9	23.7	20.7	18.4	16.7	15.5	13.0	8.15	6.87
1.70V	492	359	269	218	182	167	149	136	124	115	107	99.7	71.6	57.2	47.4	41.0	33.0	27.6	23.5	20.5	18.2	16.6	15.3	12.9	8.10	6.84
1.75V	452	350	261	210	178	165	144	133	122	112	105	98.2	70.6	56.3	46.8	40.6	32.4	27.3	23.2	20.3	18.1	16.4	15.2	12.8	8.07	6.80
1.80V	406	323	243	202	173	158	139	129	118	108	102	95.7	69.0	55.3	45.7	40.3	31.6	26.6	22.8	19.9	17.9	16.2	15.0	12.6	8.03	6.75
1.85V	362	295	217	180	161	144	129	118	109	103	95.0	88.6	65.4	52.5	43.8	37.9	29.7	25.3	21.8	19.2	17.2	15.8	14.6	12.3	7.89	6.66

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/ Time	5 min	10 min	15 min	20 min	25 min	30 min	35 min	40 min	45 min	50 min	55 min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h	24h
1.60V	886	686	500	405	347	313	278	251	234	216	204	191	137	110	92.0	80.0	63.8	53.5	45.8	40.4	36.0	32.6	30.0	25.4	16.2	13.7
1.65V	852	660	491	398	342	310	275	247	230	214	201	189	135	109	91.4	78.9	63.2	53.2	45.4	40.1	35.7	32.4	29.7	25.2	16.1	13.7
1.70V	848	635	486	393	337	310	272	244	227	211	199	188	134	109	90.7	78.5	62.3	52.8	45.0	39.7	35.6	32.2	29.4	25.1	16.1	13.7
1.75V	791	609	483	386	331	308	269	241	224	208	196	187	132	108	89.7	78.1	61.5	52.5	44.5	39.3	35.3	31.9	29.1	24.9	16.0	13.6
1.80V	726	578	456	372	321	301	262	236	218	204	192	185	130	108	88.4	77.8	60.4	51.9	43.8	38.6	35.0	31.5	28.8	24.7	15.9	13.6
1.85V	648	506	408	344	304	276	250	227	210	195	184	172	126	103	85.7	73.9	58.5	49.5	42.6	37.5	33.8	30.8	28.4	24.3	15.8	13.5

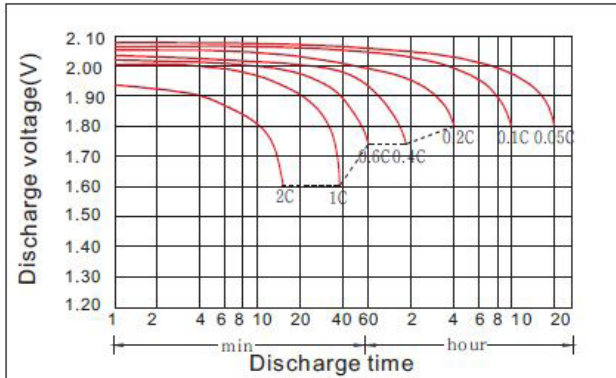
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates. Please keep in touch with manufacturers to obtain the latest information.

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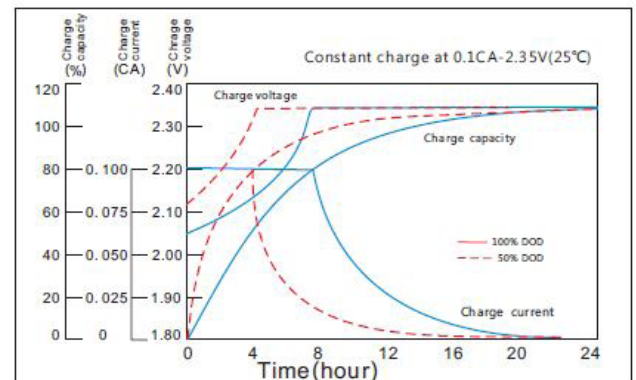


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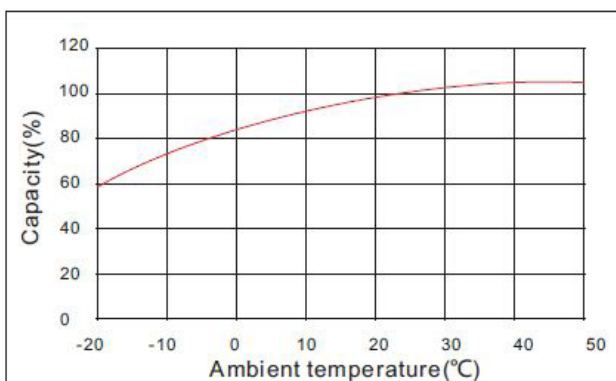
Discharge characteristic



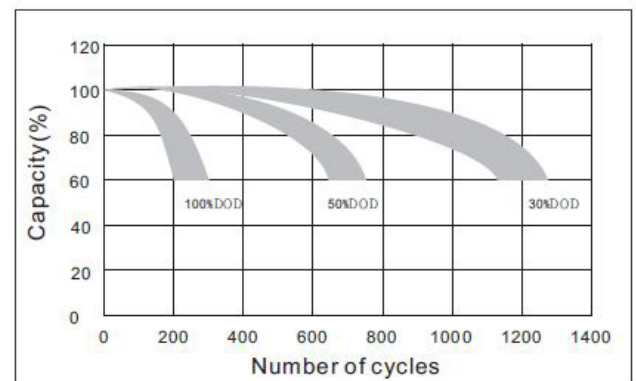
Charging characteristic



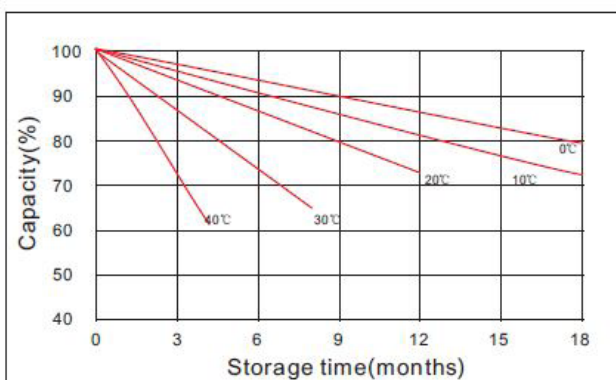
The effect of temperature on capacity



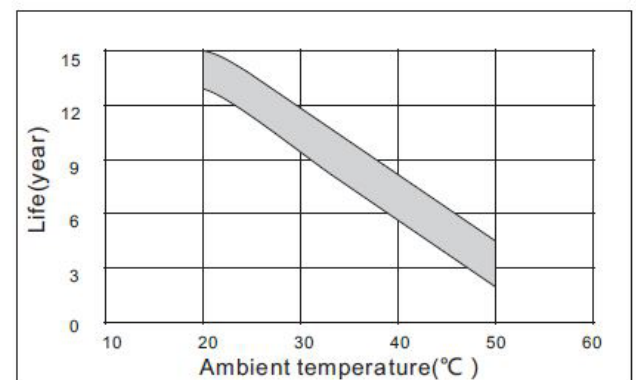
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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