



# OLCY1212M5 (12V / 12Ah)

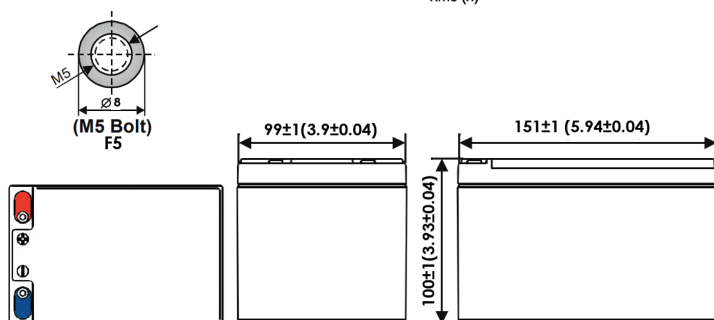
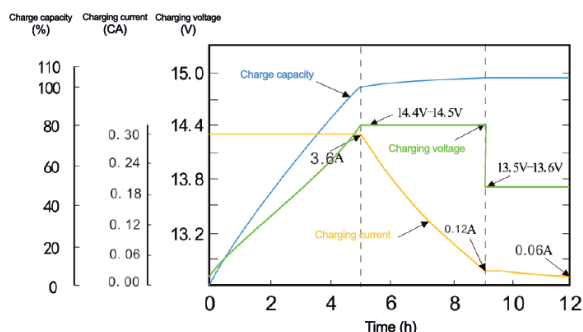
## Lead Crystal Battery

OSONIX Lead Crystal uses an AGM separator, high-purity lead plates, and an electrolyte solution specially formulated with SiO<sub>2</sub> that solidifies into white crystalline salt during charging. Its chemistry contains no cadmium or antimony, making the Lead Crystal Batteries Eco-friendly.



### Advantages

- Faster charge capacity
- Wide operating temp. range; -40°C (-40°F) to 65°C (149°F)
- Up to 1500 cycles at 80% DOD @ 25°C (77°F)
- Longer service life, 10 years @ 25°C (77°F) floating
- Excellent charging ability and high efficiency
- Eco-friendly lead crystal technology
- 99% recyclable



### Applications

- Telecommunication systems
- UPS (Uninterruptible Power Supply), EPS
- Solar/wind energy storage
- Emergency lighting systems
- Medical equipment
- Fire alarm system
- Security, surveillance, remote monitoring systems
- Energy storage systems
- Electric vehicles



SPECIFICATIONS		
Nominal Voltage		12 V
Nominal capacity (15min rate 1.67V per cell)		48.88 W
Rated capacity	(20 hour rate)	13 AH
	(10 hour rate)	12 AH
Internal resistance (at 1KHz)		12 mΩ
Max. Discharge current 25°C (77°F)		120 A (5seg)
Charging Cycle 25°C (77°F) (constant voltage)	Recommended	0.2CA (2.4A)
	Initial charging	0.3CA (3.6A), 14.7V
Float Charging Voltage		13.56 ± 1 V

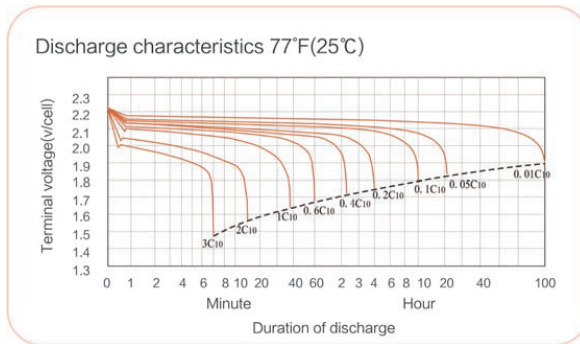
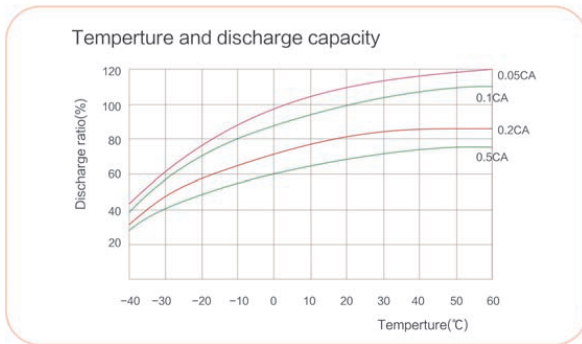
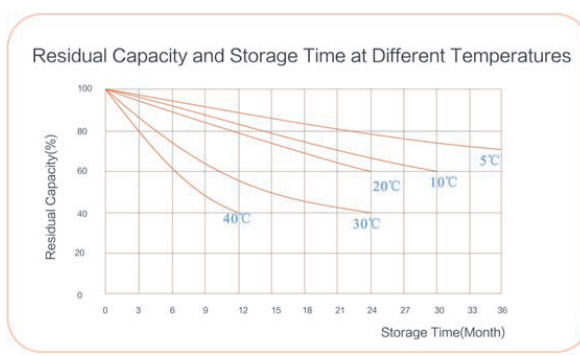
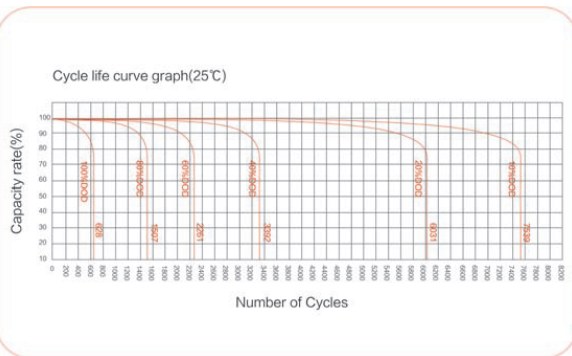
PHYSICAL SPECIFICATION		
Dimension	Total Height	100 mm (3.93")
	Height	94 mm (3.7")
	Length	151 mm (5.94")
	Width	99 mm (3.9")
Weight		4.1 kg (8.81lb)
Terminal type		F5 (M5)
Terminal torque		3 ~ 3.5 N·m (26.6 ~ 31 inch-pounds)

Compliance with CE, UL, ISO 9001, ISO 14001



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## CONSTANT CURRENT DISCHARGE CHARACTERISTICS:UNITS AMPERES(25°C)

End Voltage Per cell	5min	10min	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h	24h
1.60	44.03	34.80	23.30	14.08	10.26	8.268	4.737	3.440	2.301	1.956	1.491	1.241	0.678	0.554
1.67	40.92	32.79	22.54	13.87	10.19	8.253	4.716	3.378	2.268	1.942	1.489	1.227	0.676	0.552
1.70	40.50	32.40	22.19	13.73	10.05	8.185	4.675	3.357	2.233	1.921	1.484	1.227	0.674	0.551
1.75	37.10	31.73	21.49	13.59	9.980	8.046	4.584	3.343	2.212	1.907	1.477	1.213	0.671	0.550
1.80	33.29	28.80	20.11	13.03	9.710	7.838	4.515	3.329	2.184	1.886	1.470	1.200	0.648	0.549
1.83	31.82	27.33	18.45	12.83	9.364	7.491	4.473	3.197	2.136	1.817	1.439	1.170	0.641	0.542
1.85	29.82	25.86	17.89	12.00	9.017	7.282	4.293	3.114	2.081	1.757	1.422	1.152	0.634	0.537

## DISCHARGE DATA WITH CONSTANT POWER UNITS:WATTS PER CELL(25°C)

End Voltage Per cell	5min	10min	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h	24h
1.60	95.60	64.16	50.00	32.89	17.87	14.37	8.324	6.085	4.071	3.497	2.697	2.232	1.251	1.026
1.67	93.33	62.68	48.88	32.22	17.74	14.33	8.324	6.007	4.071	3.491	2.697	2.226	1.251	1.026
1.70	91.34	61.10	47.77	31.48	17.74	14.26	8.259	5.973	4.007	3.465	2.678	2.206	1.245	1.025
1.75	87.08	56.83	45.54	30.05	17.74	14.19	8.195	5.909	3.994	3.439	2.665	2.192	1.245	1.019
1.80	79.77	52.16	41.72	27.73	17.42	14.13	8.195	5.830	3.968	3.439	2.658	2.181	1.213	1.019
1.83	76.73	50.16	40.13	26.52	16.90	13.55	8.130	5.735	3.923	3.329	2.658	2.145	1.200	1.013
1.85	70.03	45.78	36.62	24.24	16.26	13.16	7.937	5.646	3.813	3.265	2.555	2.131	1.187	1.006

AUTHORIZED DEALER



**Osonix**  
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\* Product specifications are subject to change without notice.

\* US-V2007-REV3.01

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