ORBUS
one sun, one world

EV CHAIR SPECIAL BATTERY

12 V 28 Ah 10 Hr

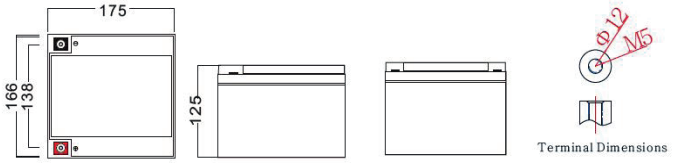


GENERAL FEATURES

- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision sealing technology
- Long life

ISO 9001 CQM · ISO 14001 CQM · OHSAS 18001 CQM · RoHS

Dimension: 175(L)×166(W) ×125(H)×125(TH) Unit: mm



SPECIFICATION

Nominal Voltage	12 V
Nominal Capacity	28 Ah
Design Life	10 Years
Terminal	M5
Approx. Weight	Approx 8.0 Kg (17.6 lbs)
Container Material	ABS
Rated Capacity	28.0 Ah 10 Hour Rate (2.80 A to 10.8 V) 22.6 Ah 3 Hour Rate (7.52 A to 10.8 V) 18.3 Ah 1 Hour Rate (18.3 A to 10.5 V)
Internal Resistance	Full charged at 25°C: 16.0 mΩ
Max. Discharge Current	360A (5S)
Operating Temperature	Discharge : -40 ~50°C (-40~ 140°F) Charge : -20 ~50°C (-4~ 122°F) Storage : -20 ~50°C (-4~ 122°F)
Charge Method (25 °C)	Charge current: Max. 7.00A; Recom. 2.80A 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

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

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	98.4	53.0	32.2	18.8	10.8	7.85	5.27	3.46	2.91	1.53
1.65V	95.9	51.4	31.7	18.8	10.8	7.76	5.21	3.43	2.88	1.52
1.70V	91.6	50.3	31.1	18.6	10.7	7.65	5.16	3.40	2.86	1.51
1.75V	84.8	48.6	30.9	18.3	10.5	7.58	5.11	3.38	2.83	1.51
1.80V	75.7	45.4	29.5	17.9	10.4	7.52	4.96	3.35	2.80	1.50
1.85V	67.5	40.5	27.0	16.5	9.76	7.08	4.72	3.21	2.72	1.48

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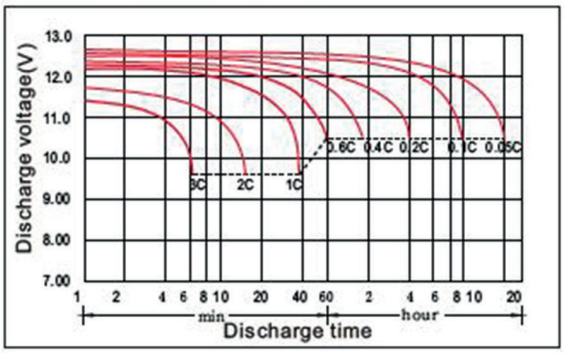
Constant Power Discharge Characteristics Unit: W/cell (25°C ,77°F)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	165.5	93.3	58.4	35.6	20.4	14.9	10.0	6.72	5.60	3.02
1.65V	159.5	91.6	57.8	35.4	20.4	14.8	9.93	6.67	5.54	3.01
1.70V	158.7	90.8	57.8	35.1	20.3	14.7	9.84	6.64	5.49	3.00
1.75V	147.6	89.9	57.5	34.8	20.2	14.6	9.76	6.58	5.43	2.98
1.80V	135.8	84.8	56.2	34.5	20.1	14.5	9.67	6.52	5.38	2.97
1.85V	121.3	76.1	51.5	32.1	19.3	13.8	9.25	6.30	5.29	2.94

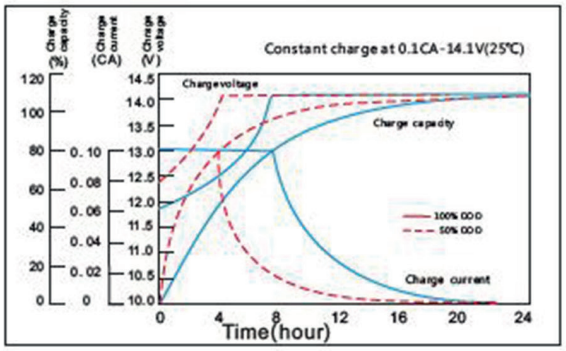
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PERFORMANCE CHARACTERISTICS

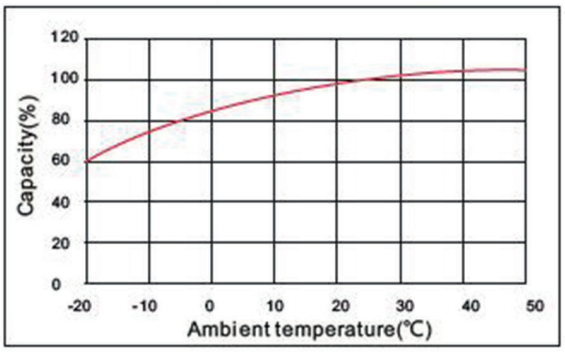
Discharge characteristic



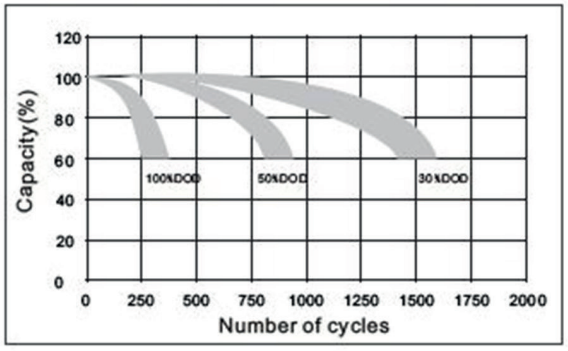
Charging characteristic



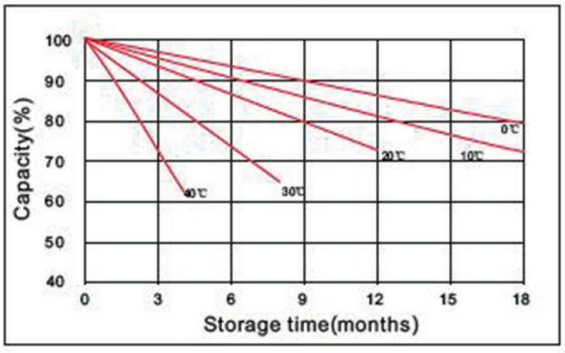
The effect of temperature on capacity



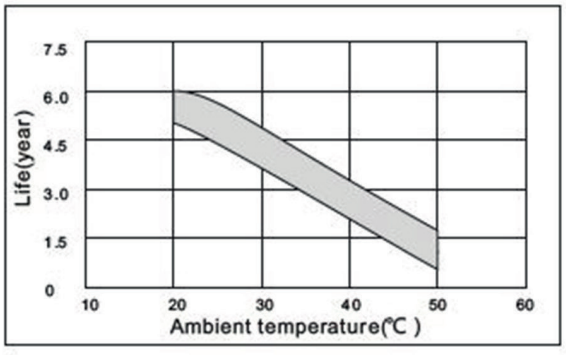
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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