

Advantages

- Very long life according to EUROBAT Classification
- More than 3000 cycles at 70% DOD
- Special negative active material formula, improve the charge acceptance ability, reduce the negative plate sulphation, more suitable for the partial state of charge (PSOC) application
- Modular design and installation, compact structure, saving the installation area and space, easy installation, convenient maintenance

Application

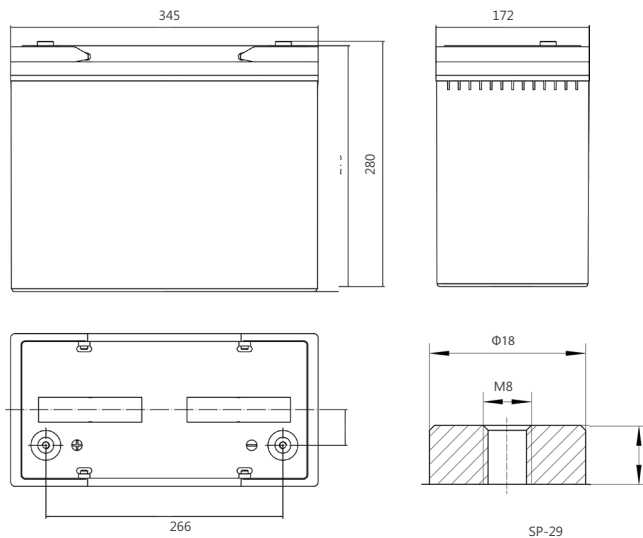
- Household energy storage system
- Solar and wind energy system
- Emergency system
- Other cycling systems

Standards

- IEC 60896-21/22: 2004
- IEC61427-2014
- Eurobat guide
- Installation compliant with EN50272-2



Drawing



Specification

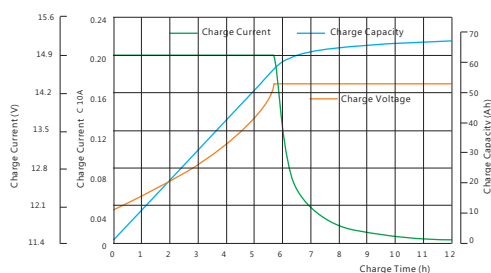
Battery Model	NLC12-100			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (10.0A, 1.80V)	5HR (17.0A, 1.80V)	3HR (25A, 1.80V)	100HR(1.254A, 1.80V)
	100	85.0	75.0	125.4
Dimensions (mm)	Length	Width	Height	Total Height
	345	172	275	280
Approx. Weight (kg)	45.0			
Reference Internal Resistance (mΩ)	4.1 (full charged @ 25°C)			
Short Circuit Current (A)	2000			
Self-Discharge (25°C)	≤1% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40 (-4mV/°C/cell), max charge current: 40A		2.25 (-4mV/°C/cell)	

Discharge Data

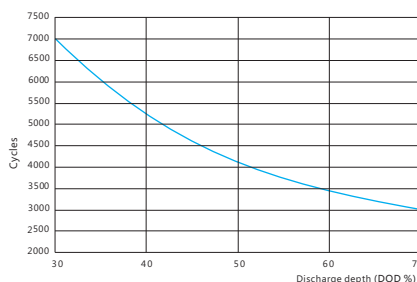
Constant Current Discharge Data (25°C, A)											
End Voltage (V/cell)	h										
	1	2	3	5	8	10	20	50	100	120	240
1.70	56.6	41.6	27.2	18.4	14.0	10.6	6.28	2.52	1.302	1.122	0.594
1.75	55.0	40.6	26.4	18.0	13.7	10.5	6.18	2.48	1.278	1.110	0.590
1.80	53.8	39.2	25.0	17.0	13.0	10.0	5.92	2.38	1.254	1.090	0.582
1.85	52.0	37.4	24.0	16.0	12.0	9.60	5.60	2.28	1.200	1.056	0.562
1.90	48.0	34.4	21.8	14.4	10.9	8.72	5.10	2.08	1.126	0.982	0.516
1.95	43.2	30.4	18.6	12.4	9.32	7.50	4.08	1.66	0.904	0.804	0.430

Constant Power Discharge Data (25°C, W/cell)											
End Voltage (V/cell)	h										
	1	2	3	5	8	10	20	50	100	120	240
1.70	102.2	75.2	49.1	33.4	26.1	19.6	11.6	4.74	2.52	2.20	1.174
1.75	100.0	74.1	48.2	32.7	25.7	19.5	11.5	4.68	2.48	2.18	1.166
1.80	98.9	72.5	46.5	31.4	25.1	19.0	11.3	4.58	2.44	2.14	1.148
1.85	96.7	70.2	45.9	30.6	23.8	18.6	11.0	4.46	2.34	2.08	1.112
1.90	92.3	66.5	42.2	28.1	22.0	17.1	10.0	4.08	2.22	1.94	1.022
1.95	83.8	59.3	36.4	24.3	19.0	15.2	8.32	3.36	1.85	1.65	0.898

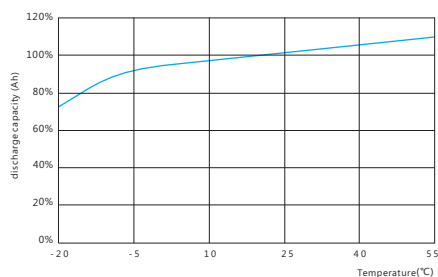
Performance Curve



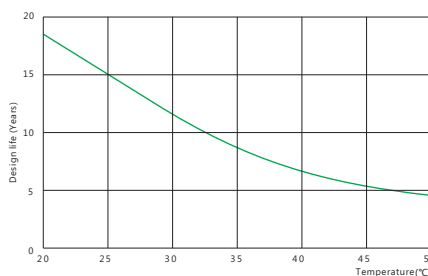
Charging characteristic



Cycle life vs. discharge depth



Discharge capacity vs. temperature



Design life vs. temperature



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