

JLG12-69

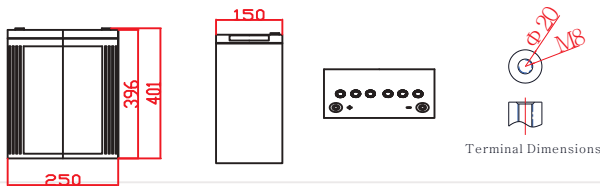


General Features

- › 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



Dimension: 250(L)×150(W)×396(H)×401TH) Unit: mm



Applications

- › Solar / wind energy and other new energy storage
- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting、Auto control system
- › Other general purpose

Specification

Nominal Voltage	12V		
Nominal Capacity	69Ah		
Design life	15 years		
Terminal	M8		
Approx. Weight	Approx 30.4kg (67.1lbs)		
Container Material	ABS		
Rated Capacity	85.6Ah	20Hour Rate	(4.28A to 10.8V)
	76.6Ah	10Hour Rate	(7.66A to 10.8V)
	67.5Ah	5Hour Rate	(13.5A to 10.8V)
	46.6Ah	1Hour Rate	(46.6A to 10.5V)
Internal resistance	Full charged at 25°C:	8.4 mΩ	
Max. Discharge Current	830A(5S)		
Operating Temperature	Discharge:	-40 ~60°C(-40~ 140°F)	
	Charge:	-20 ~50°C(-4~ 122°F)	
	Storage:	-20 ~50°C(-4~ 122°F)	
Charge current:	Max. 17.5A ; Recom.7.0A		
Charge Method (25 °C)	Float Charge:	13.5-13.8V,recom.13.8V(-18mV/ °C)	
	Equalize charge:	13.8-14.1V,recom.14.1V(-24mV/ °C)	
	Cycle charge:	14.4-15.0V,recom.14.7V(-30mV/ °C)	
Self discharge	2% of capacity declined per month at 25°C		

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

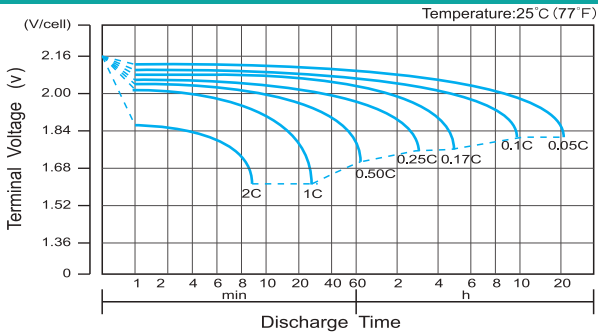
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	141.64	114.89	75.28	51.88	28.59	21.53	17.18	14.98	9.73	8.09	4.51
1.65V	134.03	109.90	72.39	50.14	27.80	20.88	16.71	14.59	9.63	8.01	4.43
1.70V	123.28	102.82	69.25	48.40	27.02	20.30	16.26	14.21	9.50	7.88	4.38
1.75V	112.79	95.74	66.10	46.66	25.94	19.70	15.84	13.86	9.36	7.77	4.33
1.80V	102.03	88.39	63.21	44.92	25.02	19.10	15.40	13.50	9.21	7.67	4.28
1.85V	83.41	73.44	54.56	40.29	22.92	17.65	14.30	12.60	8.63	7.22	4.07

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

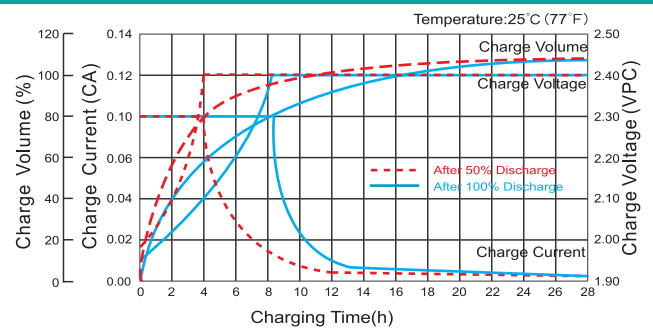
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	241.41	201.95	137.65	88.90	54.78	41.32	33.19	27.85	19.13	15.88	8.91
1.65V	230.50	194.29	133.47	86.35	53.16	40.39	32.50	27.39	18.92	15.69	8.80
1.70V	218.66	186.39	129.06	84.03	51.76	39.23	31.57	26.69	18.71	15.51	8.70
1.75V	203.80	175.95	124.65	81.47	50.14	38.30	30.87	26.23	18.48	15.32	8.61
1.80V	187.79	164.81	120.24	78.69	48.75	37.37	30.18	25.53	18.22	15.13	8.52
1.85V	156.22	138.58	104.69	71.03	44.80	34.59	28.09	23.91	17.13	14.28	8.10

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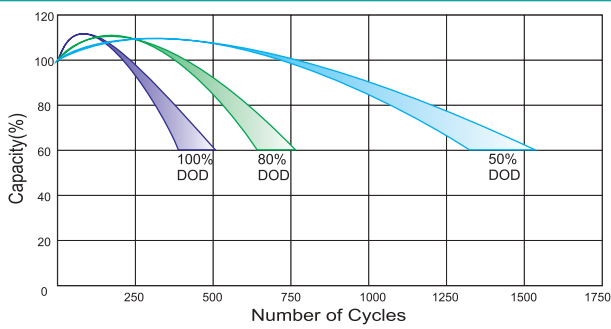
Discharge Characteristics Curve



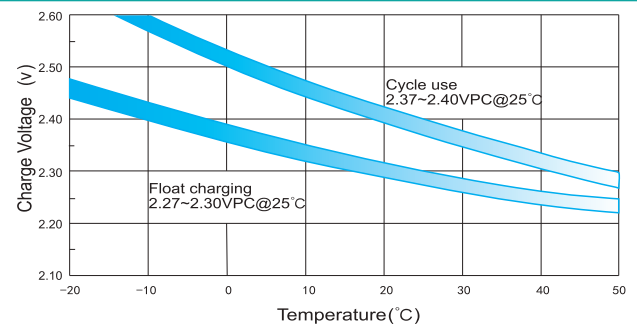
Charge Characteristic Curve for Cycle Use(IU)



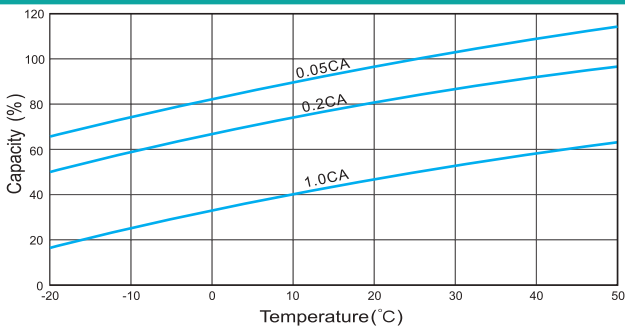
Cycle Life in Relation to Depth of Discharge



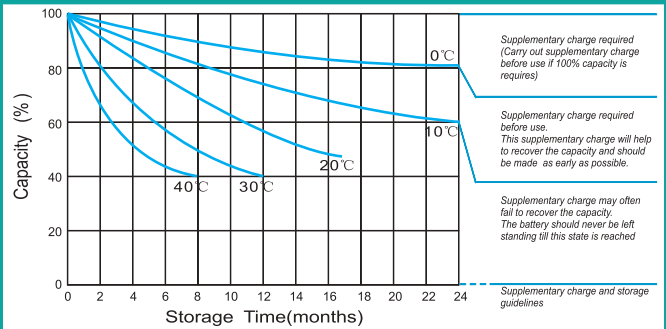
Relationship Between Charging Voltage and Temperature



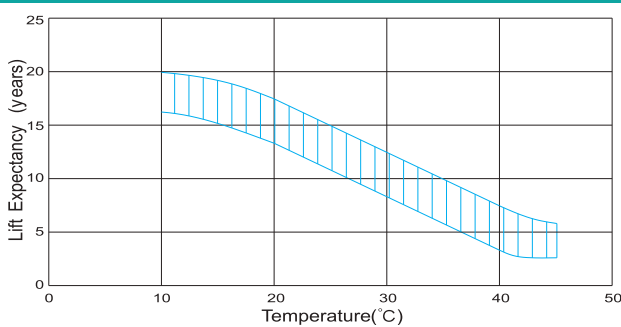
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)

