

JLG12-135



JLG Series Pure GEL battery

Applications

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

Specification

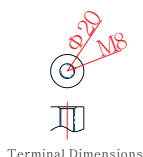
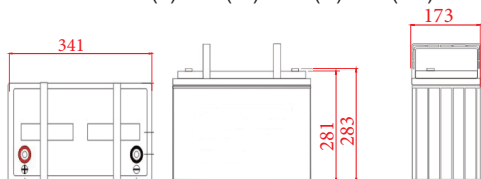
Nominal Voltage	12V
Nominal Capacity	135Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 40.5Kg (89.29lbs)
Container Material	ABS
Rated Capacity	135Ah 20Hour Rate (6.78A to 10.5V)
	123Ah 10Hour Rate (12.36A to 10.5V)
	111Ah 5Hour Rate (22.31A to 10.5V)
Internal resistance	Full charged at 25°C: 3.5 mΩ
Max. Discharge Current	1620A(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.33.8A ; Recom.13.5A
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	3% of capacity declined per month at 25°C

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:341(L)×173(W) ×281(H)×283(TH) Unit: mm



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

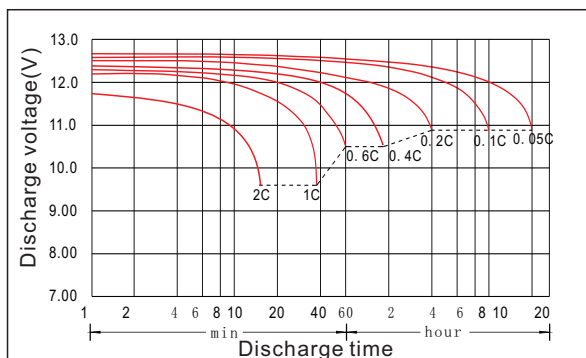
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	431.35	231.75	140.94	82.41	47.26	34.31	23.03	15.12	12.73	6.88
1.65V	418.15	224.67	138.54	81.93	47.02	33.95	22.79	15.00	12.61	6.84
1.70V	401.48	219.87	136.15	81.33	46.66	33.47	22.55	14.87	12.48	6.80
1.75V	369.21	212.67	134.95	80.13	45.94	33.11	22.31	14.75	12.36	6.78
1.80V	330.95	198.28	129.07	78.09	45.10	32.87	21.71	14.63	12.24	6.74
1.85V	295.08	176.81	117.79	72.33	42.82	30.95	20.63	14.03	11.87	6.63

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

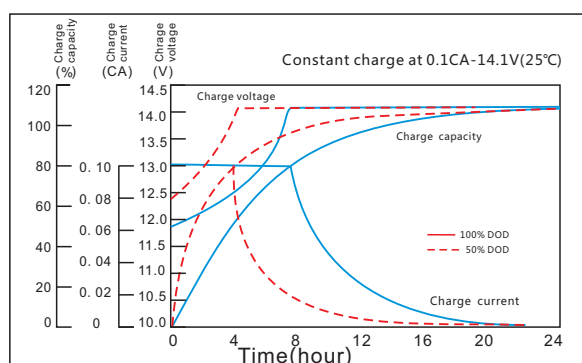
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	723.07	408.20	255.02	155.82	89.36	65.25	43.66	29.39	24.48	13.61
1.65V	695.48	401.00	252.62	154.62	89.12	64.41	43.42	29.14	24.24	13.55
1.70V	691.88	396.20	252.62	153.42	88.76	64.05	43.06	29.02	23.99	13.48
1.75V	645.22	393.80	251.42	152.22	88.28	63.69	42.82	28.78	23.75	13.42
1.80V	592.56	372.33	245.42	151.02	88.04	63.45	42.34	28.54	23.50	13.36
1.85V	529.11	332.75	225.03	140.22	84.09	60.34	40.42	27.57	23.13	13.23

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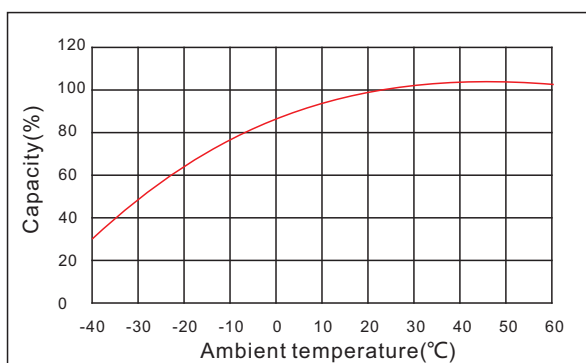
Discharge characteristic



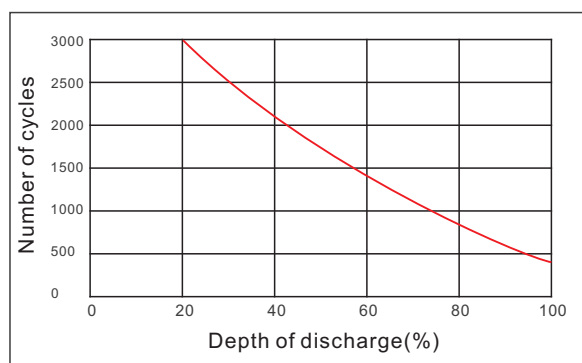
Charging characteristic



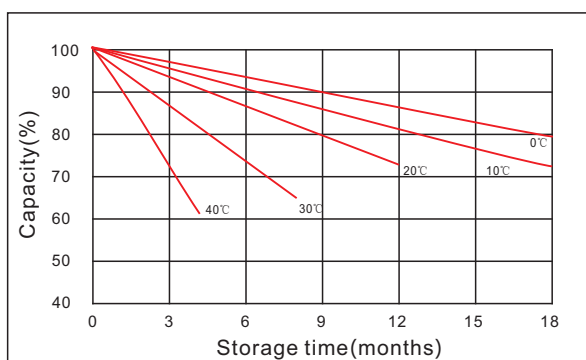
The effect of temperature on capacity



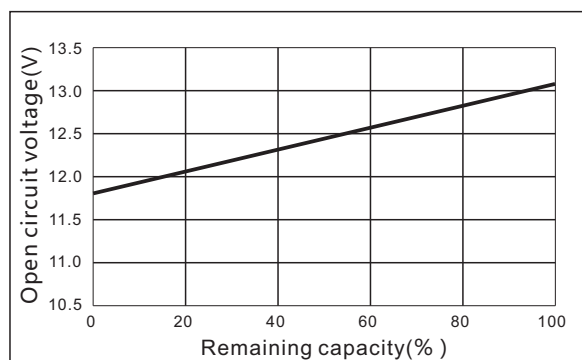
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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