

JLG12-33



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

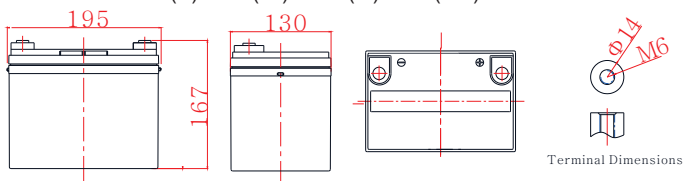
Nominal Voltage	12V
Nominal Capacity	33Ah
Design life	15 years
Terminal	M6
Approx. Weight	Approx 10.0kg (22.0lbs)
Container Material	ABS
	33.0Ah 20 Hour Rate (1.65A to 10.5V)
Rated Capacity	31.0Ah 10 Hour Rate (3.1A to 10.5V)
	27.9Ah 5 Hour Rate (5.59A to 10.5V)
Internal resistance	Full charged at 25°C: 13.2 mΩ
Max. Discharge Current	396A(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. 8.3A ; Recom.3.3A
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: 195(L)×130(W)×167(H)×167(TH) Unit: mm



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

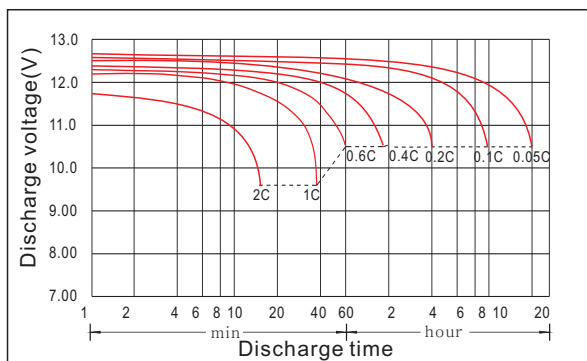
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	108.15	58.11	35.34	20.66	11.85	8.60	5.77	3.79	3.19	1.68
1.65V	104.85	56.33	34.74	20.54	11.79	8.51	5.71	3.76	3.16	1.67
1.70V	100.67	55.13	34.14	20.39	11.70	8.39	5.65	3.73	3.13	1.66
1.75V	92.57	53.33	33.84	20.09	11.52	8.30	5.59	3.70	3.10	1.65
1.80V	82.98	49.72	32.36	19.58	11.31	8.24	5.44	3.67	3.07	1.64
1.85V	73.99	44.33	29.53	18.14	10.74	7.76	5.17	3.52	2.98	1.61

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

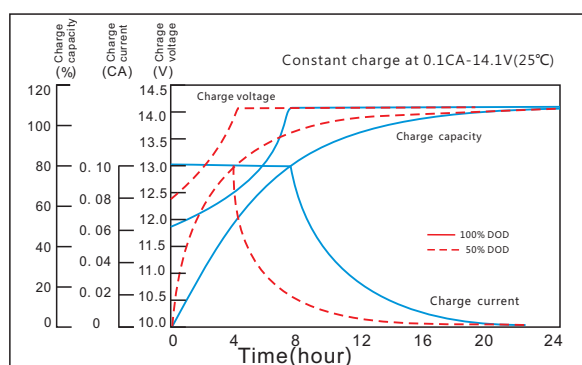
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	181.30	102.35	63.94	39.07	22.41	16.36	10.95	7.37	6.14	3.31
1.65V	174.38	100.54	63.34	38.77	22.35	16.15	10.89	7.31	6.08	3.30
1.70V	173.48	99.34	63.34	38.47	22.26	16.06	10.80	7.28	6.02	3.28
1.75V	161.78	98.74	63.04	38.17	22.14	15.97	10.74	7.22	5.95	3.27
1.80V	148.58	93.36	61.54	37.87	22.08	15.91	10.62	7.16	5.89	3.25
1.85V	132.67	83.43	56.42	35.16	21.08	15.13	10.14	6.91	5.80	3.22

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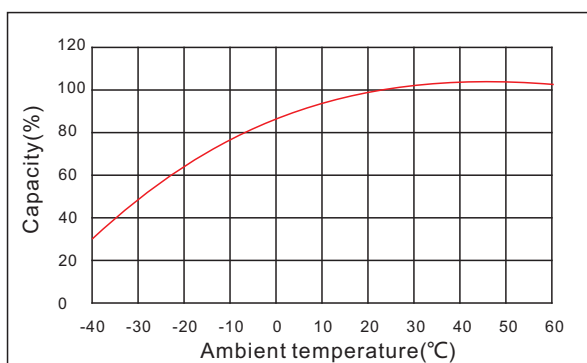
Discharge characteristic



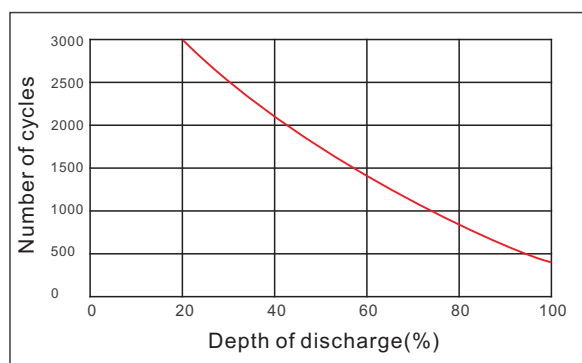
Charging characteristic



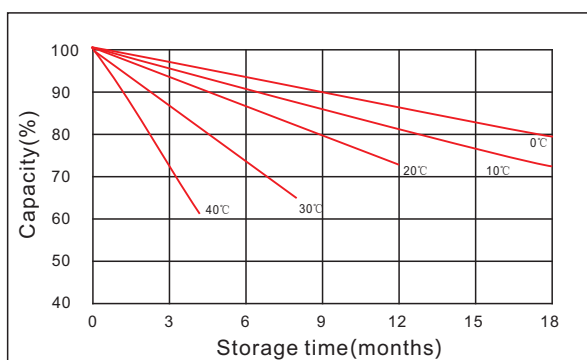
The effect of temperature on capacity



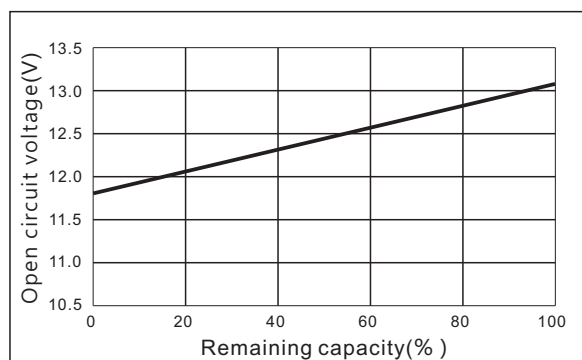
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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