

JLG6-280



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

General Features

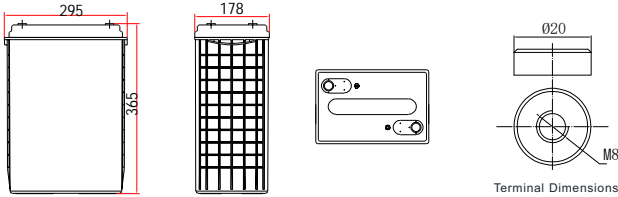
- > Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability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

Specification

Nominal Voltage	6V
Nominal Capacity	280Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 45.0kg (99.21lbs)
Container Material	ABS
Rated Capacity	280.0Ah 20Hour Rate (14.0A to 5.25V)
	213.6Ah 3Hour Rate (71.2A to 5.10V)
	155.0Ah 1Hour Rate (155A to 4.80V)
Internal resistance	Full charged at 25°C: 2.5 mΩ
Max. Discharge Current	3360A(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. 70.0A ; Recom.28.0A
Charge Method (25 °C)	Float charge:6.75-6.90V,recom.6.75V(-9mV/ °C)
	Equalize charge:6.90-7.05V,recom.7.05V(-12mV/ °C)
	Cycle charge:7.20-7.50V,recom.7.20V(-15mV/ °C)
Self discharge	3% of capacity declined per month at 25°C



Dimension:295(L)×178(W)×345(H)×365(TH) Unit: mm



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

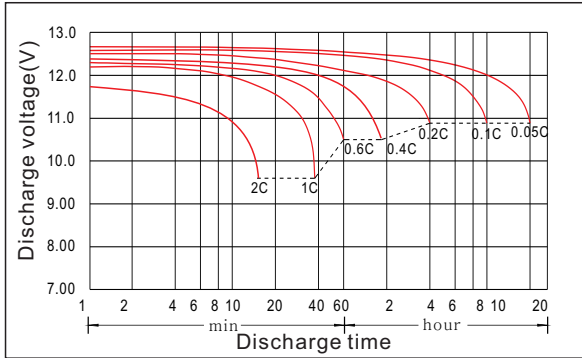
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	812	539	436	250	190	155	104	89.0	72.9	49.7	48.9	36.7	30.2	25.5	14.2
1.65V	785	536	423	245	189	154	103	88.5	72.3	49.2	48.6	36.4	29.9	25.2	14.1
1.70V	755	532	413	240	188	153	102	87.7	71.2	48.7	48.0	36.0	29.7	25.0	14.1
1.75V	694	524	399	239	185	151	101	86.5	70.3	48.2	47.4	35.7	29.5	24.7	14.0
1.80V	621	511	374	228	180	147	99.6	84.9	70.0	47.8	46.3	35.3	29.4	24.5	13.9
1.85V	555	474	332	208	167	136	96.6	80.6	66.0	46.3	44.0	34.3	28.0	23.8	13.7

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

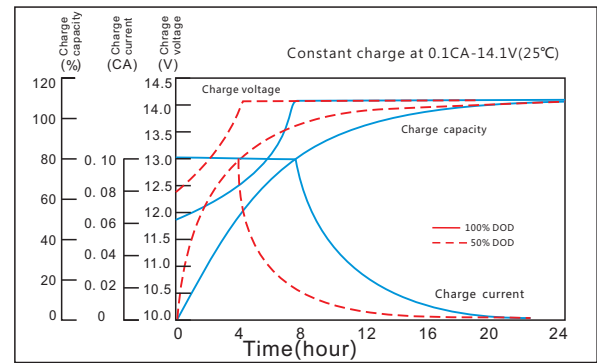
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1369	918	771	450	353	294	207	168	139	98.0	92.9	71.9	58.8	49.0	28.1
1.65V	1315	910	759	447	350	292	205	168	137	96.9	92.3	71.1	58.3	48.5	28.0
1.70V	1306	902	749	447	347	289	202	167	136	95.8	91.7	70.3	58.0	47.9	27.9
1.75V	1218	894	744	445	344	287	201	166	135	95.3	91.1	69.9	57.9	47.6	27.7
1.80V	1117	886	702	433	341	284	199	166	135	94.2	90.0	69.1	57.2	47.1	27.6
1.85V	989	822	623	397	316	263	195	158	128	92.6	85.9	67.9	55.3	46.3	27.3

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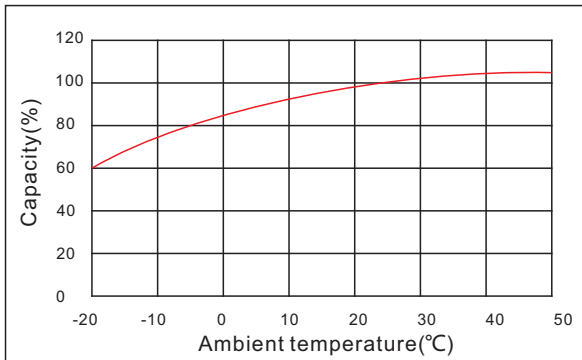
Discharge characteristic



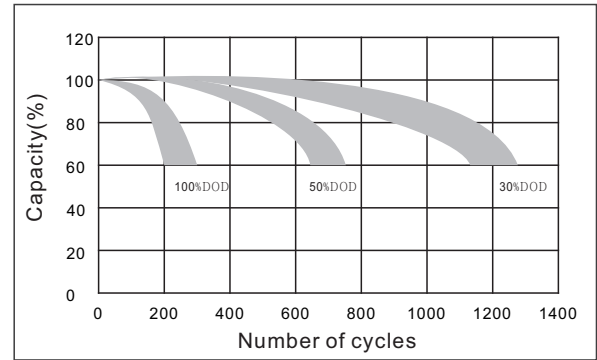
Charging characteristic



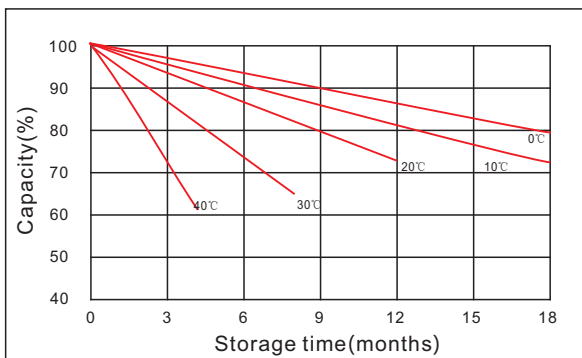
The effect of temperature on capacity



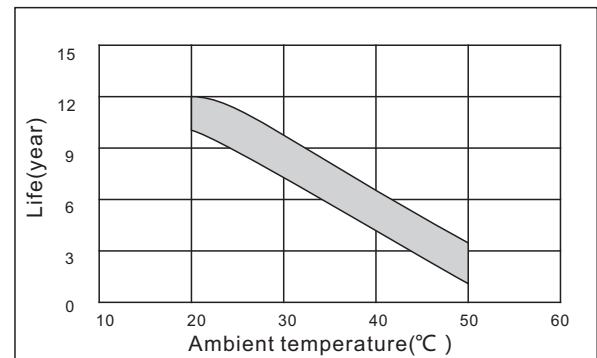
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



www.kijo.com.cn info@kijo.com.cn

Jiangxi Jingjiu Power Science&Technology Co. Ltd.
Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang City, Jiangxi Province, China.

+86-791-85982779 +86-791-85989842

Jiangxi Jingjiu Power (Jiujiang) Co. Ltd.
Add: Xiwang Rd, Aicheng Industrial Park, Yongxiu Country, jiujiang City, Jiangxi Province, China.

