JCC12-14 12V 14Ah

VALVE REGULATED SEALED LEAD-ACID BATTERY

REV 2026.05
DOC JPC-JCC12-14
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SPECIFICATIONS

@ 25 °C

Cells Per Unit	6
Nominal Voltage	12 V
Nominal Capacity	14 Ah @ 20 hr-rate to 1.75 V/cell
Weight	approx. 4.20 kg (±5%)
Internal Resistance	≤ 13.0 mΩ (full charge)
Terminal	F2 / F19 (M5) optional
Max. Discharge Current	210 A (5 s)
Cold Cranking (CCA)	140 A
Max. Charging Current	4.2 A
Reference Capacity	C_3 10.5 · C_5 11.6 · C_{10} 13.2 · C_{20} 14.0 Ah
Float Charging Voltage	13.7–13.9 V · -3 mV/°C/cell
Cycle Use Voltage	14.6–14.8 V · -4 mV/°C/cell
Operating Temp.	Dis -20~60 · Chg 0~50 · Sto -20~60 °C
Normal Operating Temp.	25 ± 5 °C
Self Discharge	≤ 3% / month · recharge ≤ 6 months
Container Material	ABS UL94-HB (UL94-V0 optional)



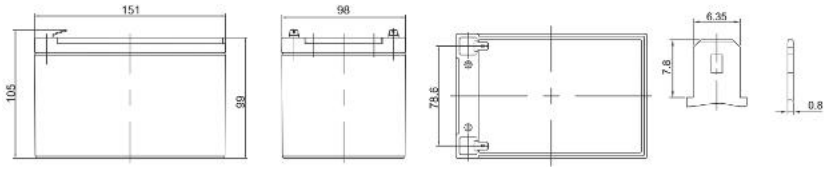
JCC12-14 · F2 terminals · hardware kit included

JCC12-14 is designed for frequent discharge applications. Specially formulated active material, strong grids and thick-plate construction deliver reliable performance under high load and competitive cycle life.

Typical applications: electric vehicles & golf carts, floor machines, forklifts, aerial lifts, robotics, marine, RV, mobility and medical equipment, and most outdoor applications.

DIMENSIONS

(MM)



Front · End · Top · F2 terminal detail — tolerance ±2 mm

OVERALL DIMENSIONS	
Length	151 ± 2 mm (5.94 in)
Width	98 ± 2 mm (3.86 in)
Height	99 ± 2 mm (3.90 in)
Total Height	105 ± 2 mm (4.13 in)

TERMINAL	TORQUE
M5	6–7 N·m

CONSTANT CURRENT DISCHARGE — A @ 25 °C

F.V / Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60 V	58.53	38.37	28.58	16.43	9.645	5.503	3.886	3.039	2.536	1.714	1.418	0.728
1.65 V	56.37	37.10	27.73	16.09	9.463	5.409	3.827	2.997	2.505	1.695	1.403	0.721
1.70 V	53.55	35.43	26.60	15.63	9.221	5.285	3.748	2.941	2.463	1.669	1.384	0.713
1.75 V	49.80	33.20	25.09	15.01	8.892	5.115	3.639	2.865	2.405	1.634	1.358	0.700
1.80 V	44.82	30.21	23.06	14.16	8.438	4.880	3.489	2.758	2.325	1.585	1.321	0.683
1.85 V	38.10	26.13	20.26	12.95	7.792	4.544	3.273	2.604	2.208	1.513	1.267	0.658

CONSTANT POWER DISCHARGE — W/cell @ 25 °C

F.V / Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60 V	99.26	65.23	49.97	29.84	18.03	10.43	7.423	5.834	4.889	3.347	2.787	1.433
1.65 V	98.12	64.73	49.49	29.65	17.88	10.33	7.354	5.784	4.853	3.320	2.764	1.423
1.70 V	94.26	62.51	47.90	28.98	17.48	10.12	7.220	5.689	4.782	3.274	2.729	1.407
1.75 V	89.24	59.63	45.84	28.11	16.94	9.841	7.041	5.562	4.686	3.211	2.680	1.384
1.80 V	81.71	55.21	42.72	26.79	16.16	9.436	6.777	5.374	4.545	3.122	2.611	1.352
1.85 V	70.69	48.60	38.07	24.75	15.03	8.834	6.385	5.094	4.331	2.987	2.508	1.305

Data are average values obtained within three charge/discharge cycles, not minimum values. Battery must be fully charged before capacity testing; C_{20} reaches 95% after the first cycle and 100% after the third cycle.

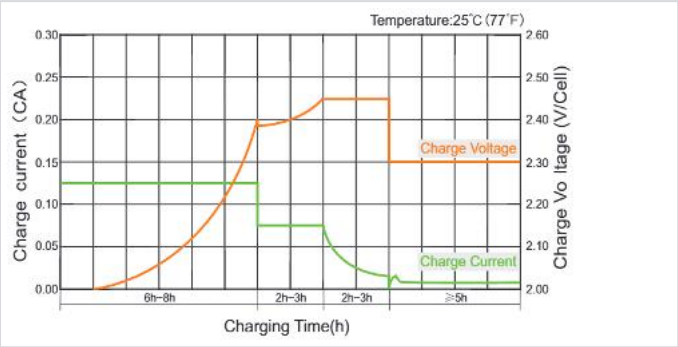
JAPCELL

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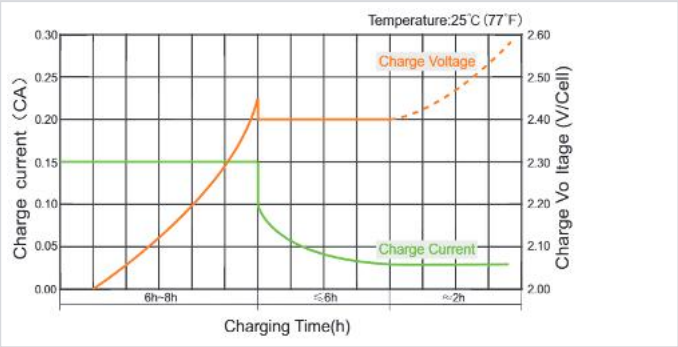
Characteristic Curves

PERFORMANCE DATA @ 25 °C

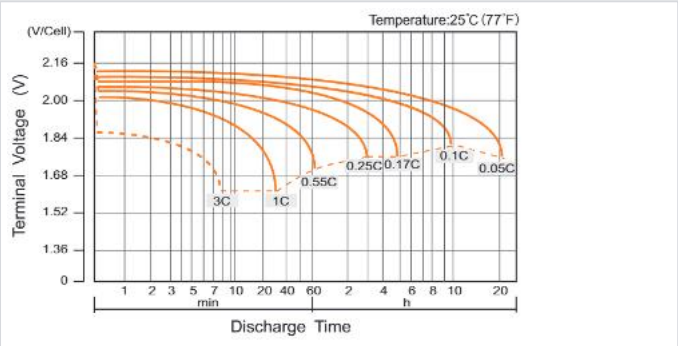
CHARGE CURVE — CYCLE USE — IIUU



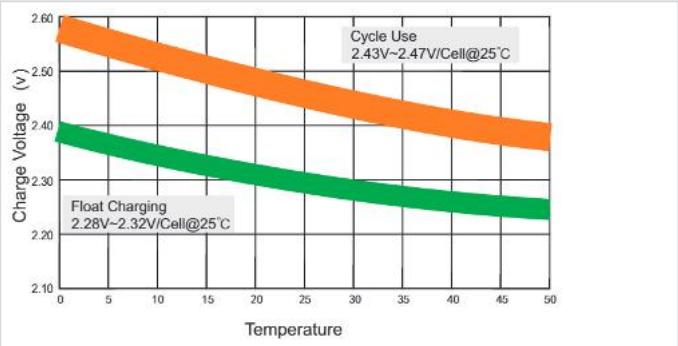
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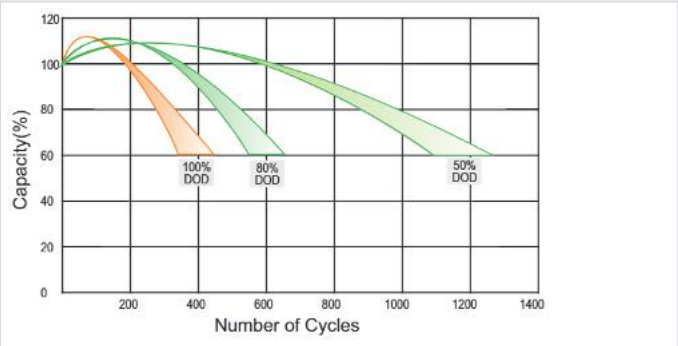
DISCHARGE CHARACTERISTICS — V/CELL · 25 °C



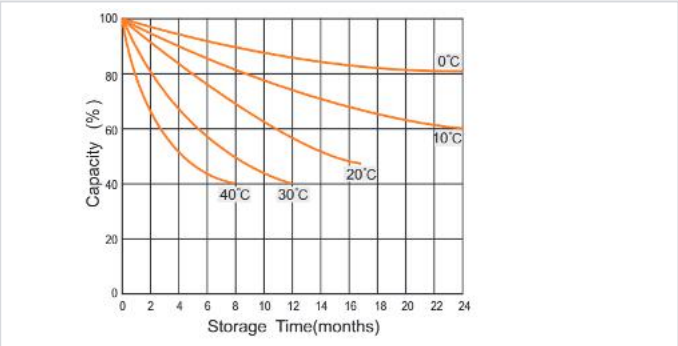
CHARGE VOLTAGE VS. TEMP. — V/CELL



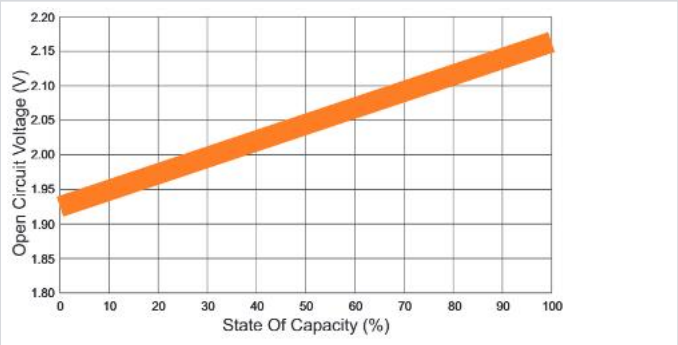
CYCLE LIFE VS. DOD — DOD



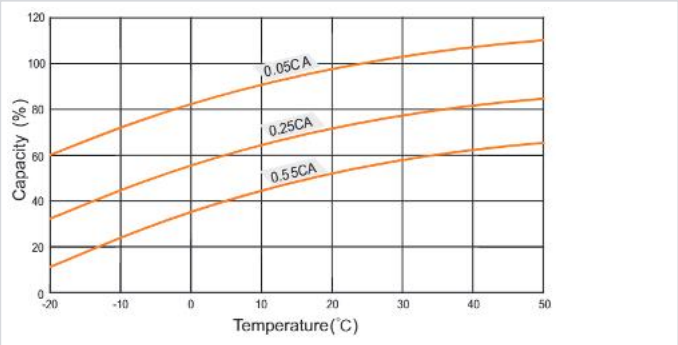
STORAGE CHARACTERISTICS — MONTHS



OPEN-CIRCUIT VOLTAGE VS. SOC — 20 °C



TEMP. EFFECTS ON CAPACITY — % · °C



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