JCC12-45 12V 45Ah

VALVE REGULATED SEALED LEAD-ACID BATTERY

SPECIFICATIONS

@ 25 °C

Cells Per Unit	6
Nominal Voltage	12 V
Nominal Capacity	45 Ah @ 20 hr-rate to 1.75 V/cell
Weight	approx. 14.0 kg (±5%)
Internal Resistance	≤ 7.0 mΩ (full charge)
Terminal	F11 (M6) · F4 (M5) optional
Max. Discharge Current	450 A (5 s)
Cold Cranking (CCA)	315 A
Max. Charging Current	13.5 A
Reference Capacity	C_3 33.6 · C_5 38.3 · C_{10} 42.8 · C_{20} 45.0 Ah
Float Charging Voltage	13.6–13.8 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)



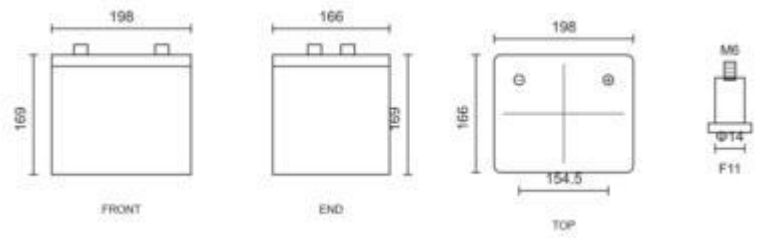
JCC12-45 · F11 terminals · hardware kit included

The **JCC12-45** 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 · F11 terminal detail — tolerance ±2 mm

OVERALL DIMENSIONS	
Length	198 ± 2 mm (7.80 in)
Width	166 ± 2 mm (6.54 in)
Height	169 ± 2 mm (6.65 in)
Total Height	169 ± 2 mm (6.65 in)

TERMINAL	TORQUE
M6	8–10 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	151.4	114.2	85.9	50.3	27.5	16.3	12.7	9.97	8.49	5.58	4.51	2.34
1.65 V	145.9	107.9	82.2	48.3	26.6	15.8	12.3	9.70	8.27	5.52	4.45	2.31
1.70 V	138.8	99.4	77.0	46.1	25.7	15.3	12.0	9.44	8.05	5.43	4.39	2.28
1.75 V	129.6	91.0	71.6	44.1	24.7	14.7	11.6	9.20	7.85	5.36	4.33	2.25
1.80 V	118.1	82.3	66.1	42.1	23.8	14.2	11.2	8.93	7.65	5.27	4.28	2.23
1.85 V	103.9	67.3	54.9	36.3	21.3	13.0	10.4	8.30	7.13	4.94	4.02	2.11

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	260.5	194.2	150.2	91.3	51.7	30.9	24.2	19.1	16.4	10.9	8.87	4.61
1.65 V	257.8	187.0	145.8	88.6	50.2	30.1	23.6	18.7	16.0	10.8	8.77	4.55
1.70 V	248.0	175.3	138.6	85.5	48.9	29.2	23.0	18.3	15.6	10.7	8.65	4.50
1.75 V	235.8	163.4	130.8	82.6	47.4	28.3	22.5	17.9	15.3	10.5	8.55	4.45
1.80 V	218.6	150.5	122.5	79.7	45.8	27.5	21.8	17.4	15.0	10.4	8.45	4.41
1.85 V	195.8	125.2	103.1	69.3	41.3	25.3	20.3	16.2	14.0	9.76	7.96	4.19

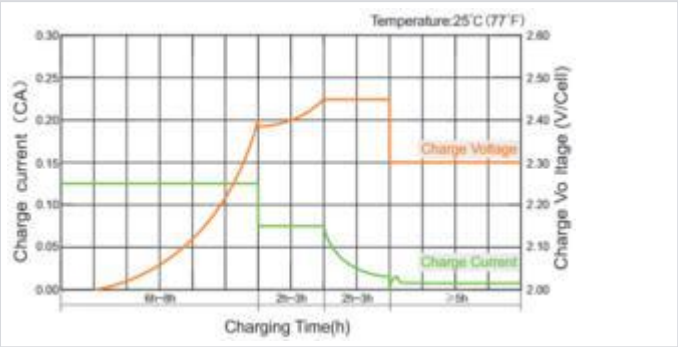
Data are average values obtained within three charge/discharge cycles, not minimum values. Battery must be fully charged before capacity testing; C_{20} reaches 95% after the first cycle and 100% after the third cycle.

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Characteristic Curves

PERFORMANCE DATA @ 25 °C

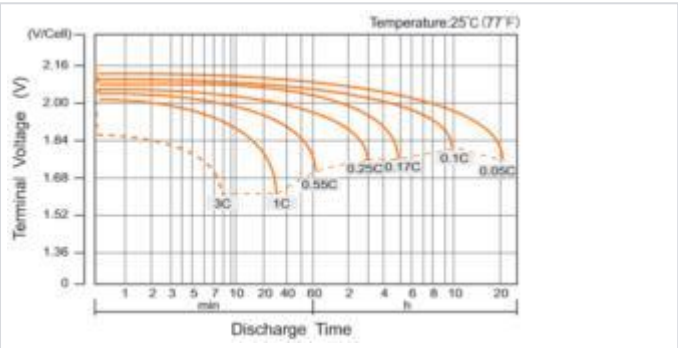
CHARGE CURVE — CYCLE USE — IIUU



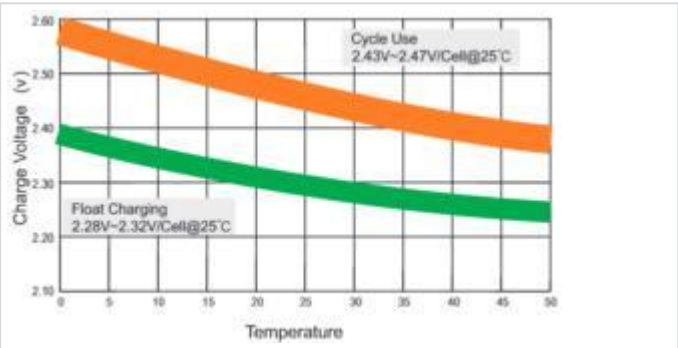
CHARGE CURVE — CYCLE USE — IUI



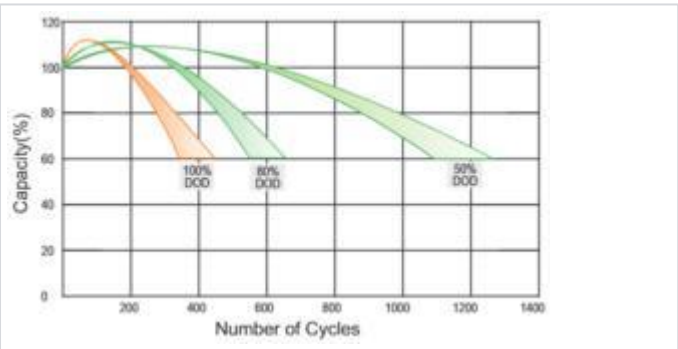
DISCHARGE CHARACTERISTICS — V/CELL · 25 °C



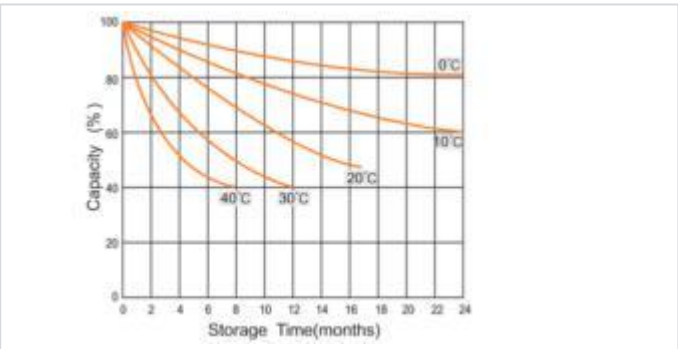
CHARGE VOLTAGE VS. TEMP. — V/CELL



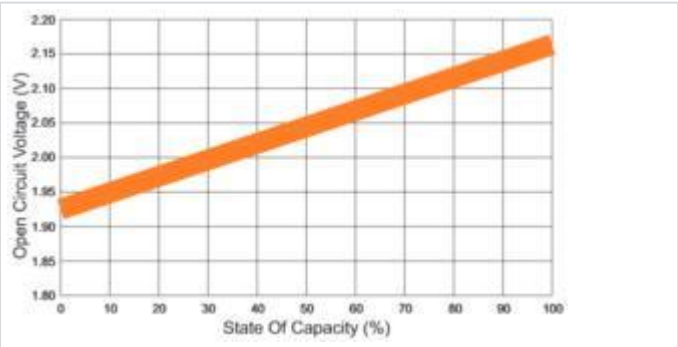
CYCLE LIFE VS. DOD — DOD



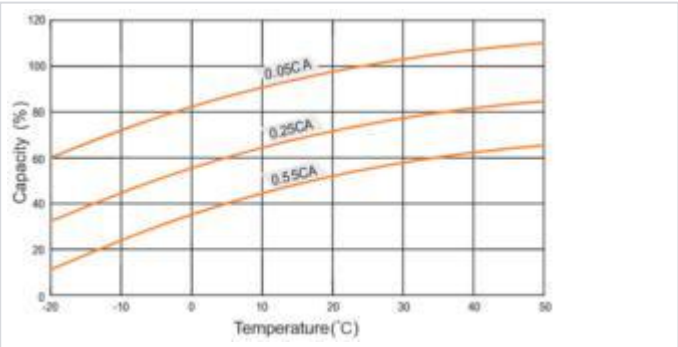
STORAGE CHARACTERISTICS — MONTHS



OPEN-CIRCUIT VOLTAGE VS. SOC — 20 °C



TEMP. EFFECTS ON CAPACITY — % · °C



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