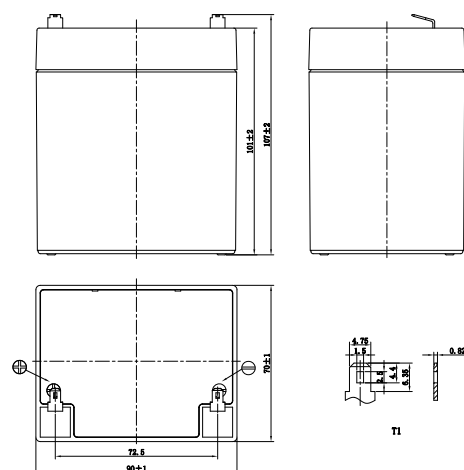


DJW SERIES

DJW12-4.5 (12V4.5Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.75V/cell	4.5Ah
Dimension	Length	90mm (3.54inches)
	Width	70mm (2.76inches)
	Container Height	101mm (3.98inches)
	Total Height	107mm (4.21inches)
Approx Weight	1.55kg (3.42lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	126A	
Internal Resistance (25°C)	Approx 34 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). DJW series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	14.5	9.9	7.82	6.32	4.58	3.32	2.67	1.96	1.54	1.12	0.886	0.754	0.645	0.509	0.416	0.220
1.80V/cell	15.7	10.4	8.21	6.57	4.72	3.41	2.75	2.00	1.57	1.13	0.900	0.765	0.656	0.516	0.421	0.222
1.75V/cell	16.5	10.9	8.48	6.75	4.84	3.48	2.80	2.03	1.59	1.15	0.909	0.775	0.663	0.521	0.426	0.225
1.70V/cell	17.3	11.3	8.77	6.95	4.97	3.56	2.85	2.07	1.62	1.16	0.927	0.785	0.671	0.527	0.430	0.227
1.67V/cell	17.8	11.6	8.98	7.09	5.05	3.62	2.89	2.10	1.64	1.18	0.936	0.792	0.677	0.531	0.433	0.229
1.60V/cell	18.9	12.2	9.27	7.30	5.19	3.71	2.96	2.14	1.67	1.20	0.945	0.805	0.687	0.538	0.438	0.231
Constant Power Discharge (Watts/cell) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	27.5	18.8	14.9	12.2	8.85	6.44	5.20	3.83	3.02	2.19	1.75	1.49	1.28	1.01	0.826	0.440
1.80V/cell	29.3	19.8	15.7	12.6	9.09	6.59	5.32	3.90	3.07	2.21	1.76	1.51	1.30	1.03	0.837	0.446
1.75V/cell	30.7	20.5	16.1	12.9	9.27	6.71	5.40	3.96	3.11	2.25	1.79	1.52	1.31	1.04	0.844	0.450
1.70V/cell	32.0	21.2	16.5	13.1	9.45	6.83	5.49	4.01	3.15	2.28	1.81	1.55	1.32	1.04	0.852	0.454
1.67V/cell	32.9	21.7	16.8	13.4	9.63	6.92	5.56	4.06	3.18	2.30	1.83	1.56	1.33	1.05	0.859	0.457
1.60V/cell	34.7	22.5	17.4	13.8	9.81	7.05	5.66	4.12	3.23	2.33	1.85	1.58	1.35	1.06	0.869	0.463

DJW SERIES

DJW12-4.5 (12V4.5Ah)



APPLICATIONS

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

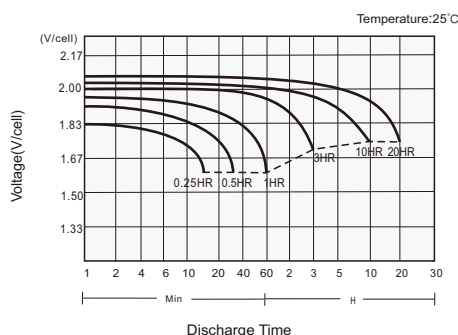
GENERAL FEATURES

- 5 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

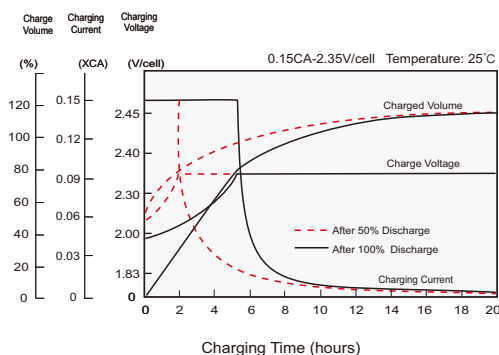
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in Leoch® IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

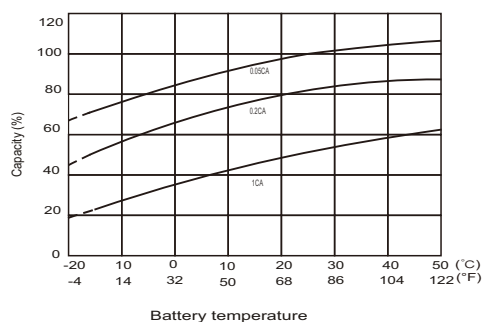
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

