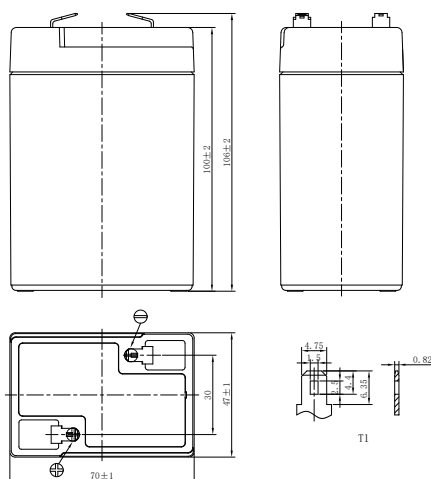


# DJW SERIES

## DJW6-4.5 (6V4.5Ah)



### CHARACTERISTICS

| Item                          | Specifications  |                     |
|-------------------------------|---|---------------------|
| Rated Voltage                 | 6V  |                     |
| Nominal Capacity (25°C)       | C <sub>20</sub> , 1.75V/cell  | 4.5Ah               |
| Dimension                     | Length  | 70mm (2.76inches)   |
|                               | Width   | 47mm (1.85inches)   |
|                               | Container Height  | 100mm (3.94inches)  |
|                               | Total Height  | 106mm (4.17inches)  |
| Approx Weight                 | 0.80kg (1.76lbs)  |                     |
| Terminal                      | T1/T2   |                     |
| Container Material            | ABS (UL94 HB or V-0 optional)   |                     |
| Short-circuit current         | 126A  |                     |
| Internal Resistance (25°C)    | Approx 17 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%                 |
|                               | ≤3% per month at 25°C (77°F).<br>DJW series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required.<br>For higher temperatures the time interval will be shorter. |                     |
| Self Discharge                |   |                     |

### 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  | 12.8 | 8.74  | 6.97  | 5.67  | 4.19  | 3.08  | 2.53 | 1.87 | 1.49 | 1.09 | 0.876 | 0.747 | 0.646 | 0.509 | 0.416 | 0.220 |
| 1.80V/cell  | 13.7 | 9.27  | 7.31  | 5.89  | 4.32  | 3.16  | 2.60 | 1.91 | 1.51 | 1.11 | 0.889 | 0.758 | 0.656 | 0.516 | 0.421 | 0.223 |
| 1.75V/cell  | 14.4 | 9.64  | 7.55  | 6.06  | 4.43  | 3.23  | 2.65 | 1.95 | 1.54 | 1.12 | 0.901 | 0.768 | 0.663 | 0.522 | 0.426 | 0.225 |
| 1.70V/cell  | 15.1 | 10.0  | 7.81  | 6.23  | 4.55  | 3.30  | 2.70 | 1.98 | 1.56 | 1.14 | 0.913 | 0.778 | 0.671 | 0.527 | 0.430 | 0.227 |
| 1.67V/cell  | 15.7 | 10.3  | 8.00  | 6.36  | 4.63  | 3.36  | 2.74 | 2.01 | 1.58 | 1.15 | 0.922 | 0.785 | 0.677 | 0.531 | 0.433 | 0.229 |
| 1.60V/cell  | 16.6 | 10.7  | 8.27  | 6.55  | 4.75  | 3.44  | 2.80 | 2.05 | 1.61 | 1.17 | 0.938 | 0.797 | 0.687 | 0.539 | 0.439 | 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   | 24.1 | 16.6  | 13.3  | 10.9  | 8.10  | 5.97  | 4.93 | 3.66 | 2.91 | 2.14 | 1.73 | 1.48 | 1.28 | 1.01 | 0.826 | 0.440 |
| 1.80V/cell   | 25.7 | 17.5  | 13.9  | 11.3  | 8.32  | 6.11  | 5.03 | 3.72 | 2.96 | 2.17 | 1.75 | 1.49 | 1.30 | 1.02 | 0.837 | 0.445 |
| 1.75V/cell   | 26.8 | 18.1  | 14.3  | 11.5  | 8.49  | 6.22  | 5.12 | 3.78 | 3.00 | 2.20 | 1.77 | 1.51 | 1.31 | 1.03 | 0.844 | 0.450 |
| 1.70V/cell   | 27.8 | 18.7  | 14.7  | 11.8  | 8.67  | 6.34  | 5.19 | 3.83 | 3.04 | 2.23 | 1.79 | 1.53 | 1.32 | 1.04 | 0.853 | 0.454 |
| 1.67V/cell   | 28.5 | 19.1  | 15.0  | 12.0  | 8.80  | 6.42  | 5.26 | 3.88 | 3.07 | 2.25 | 1.80 | 1.54 | 1.33 | 1.05 | 0.858 | 0.457 |
| 1.60V/cell   | 29.6 | 19.7  | 15.4  | 12.3  | 9.00  | 6.54  | 5.36 | 3.94 | 3.12 | 2.28 | 1.83 | 1.56 | 1.35 | 1.06 | 0.868 | 0.462 |

# DJW SERIES

## DJW6-4.5 (6V4.5Ah)



### 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

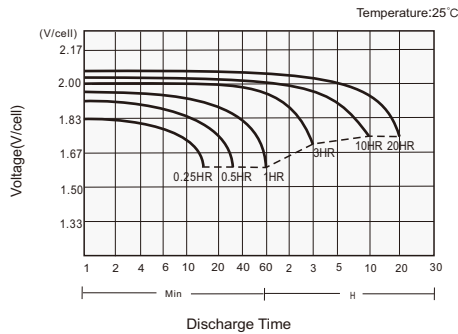
### GENERAL FEATURES

- 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

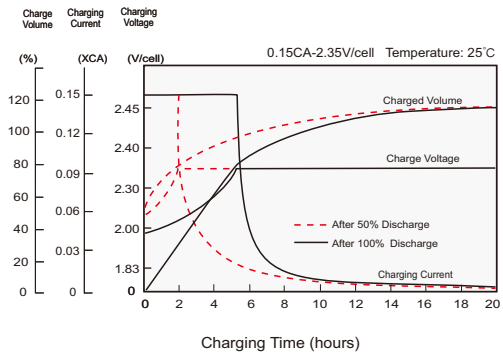
### STANDARDS

- 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

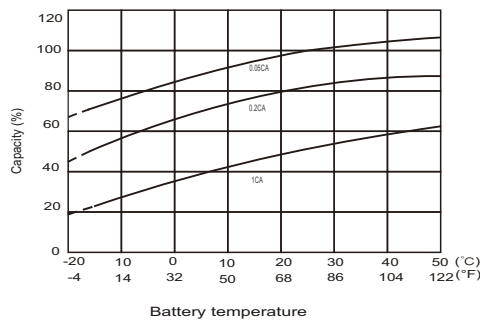
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

