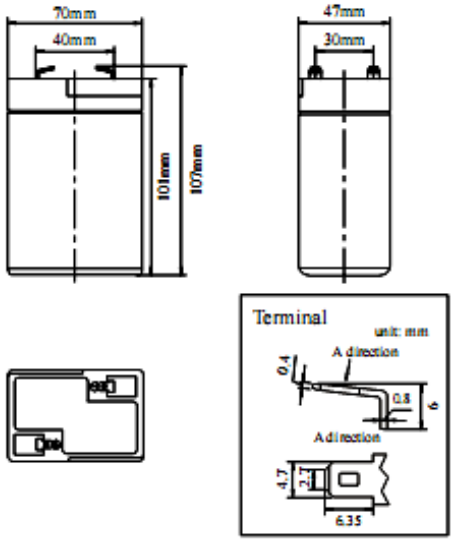
BATTERY SERVICE HUB
industrial energy solutions

# FC6-4

## Product Image

## Product Dimensions




## Characteristics

| | | |
|---|---|---|
| Nominal Voltage | | 6V |
| Nominal Capacity (20 hour rate) | | 4Ah |
| Capacity 25℃(77°F) | 10 hour rate (0.38A) | 3.8Ah |
| | 5 hour rate (0.71A) | 3.55Ah |
| | 1 hour rate (2.64A) | 2.64Ah |
| Internal Resistance | Full Charged Battery 25℃ | ≤20mΩ |
| Capacity affected by Temperature (10 hour ) | 40℃ (104°F) | 102% |
| | 25℃ (77°F) | 100% |
| | 0℃ (32°F) | 85% |
| | -15℃ (5°F) | 65% |
| Self-Discharge 25℃(77°F) Capacity | after 3 month storage | 90% |
| | after 6 month storage | 80% |
| | after 12 month storage | 62% |
| Charge (Constant Voltage) 25℃(77°F) | Float | Initial Charging Current Less than1.2A Voltage 6.8-6.9V |
| | Cycle | Initial Charging Current Less than 1.2A Voltage 7.2-7.5V |

## Packaging

| | | |
|---|---|---|
| Battery Dimensions | Length | 70mm |
| | Width | 47mm |
| | Height | 101mm |
| | Total Height | 107mm |
| Box Dimensions | Length | 274mm |
| | Width | 160mm |
| | Height | 147mm |
| Quantity Per Box | | 10 pcs per box |
| Net weight Per Cell | | 0.71 kg±50g |
| Net weight Per Box | | 7.1kg |
| Gross Weight | | 7.5kg |

### Discharge Constant Current per Cell (Amperes at 77°F25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 13.20 | 8.80 | 6.62 | 4.40 | 3.08 | 2.64 | 1.65 | 1.13 | 0.75 | 0.51 | 0.42 | 0.22 |
| 1.65V | 12.96 | 8.64 | 6.50 | 4.32 | 3.02 | 2.59 | 1.62 | 1.11 | 0.74 | 0.50 | 0.41 | 0.22 |
| 1.70V | 12.72 | 8.48 | 6.38 | 4.24 | 2.97 | 2.54 | 1.59 | 1.09 | 0.73 | 0.49 | 0.40 | 0.21 |
| 1.75V | 12.48 | 8.32 | 6.26 | 4.16 | 2.91 | 2.50 | 1.56 | 1.07 | 0.71 | 0.48 | 0.40 | 0.21 |
| 1.80V | 12.00 | 8.00 | 6.02 | 4.00 | 2.80 | 2.40 | 1.50 | 1.03 | 0.69 | 0.46 | 0.38 | 0.20 |

### Discharge Constant Power per Cell (Watts at 77°F 25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 25.41 | 16.94 | 12.75 | 8.47 | 5.93 | 5.08 | 3.18 | 2.18 | 1.45 | 0.98 | 0.81 | 0.42 |
| 1.65V | 24.95 | 16.63 | 12.51 | 8.32 | 5.82 | 4.99 | 3.12 | 2.14 | 1.42 | 0.96 | 0.79 | 0.42 |
| 1.70V | 24.49 | 16.32 | 12.28 | 8.16 | 5.71 | 4.90 | 3.06 | 2.10 | 1.40 | 0.94 | 0.78 | 0.41 |
| 1.75V | 24.02 | 16.02 | 12.05 | 8.01 | 5.61 | 4.80 | 3.00 | 2.06 | 1.37 | 0.92 | 0.76 | 0.40 |
| 1.80V | 23.10 | 15.40 | 11.59 | 7.70 | 5.39 | 4.62 | 2.89 | 1.98 | 1.32 | 0.89 | 0.73 | 0.39 |

**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.

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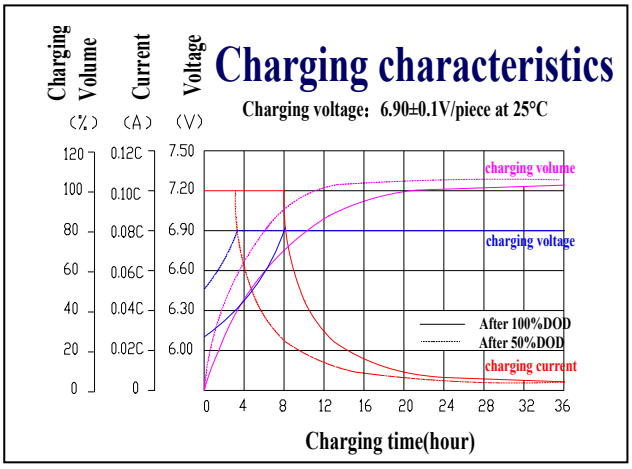
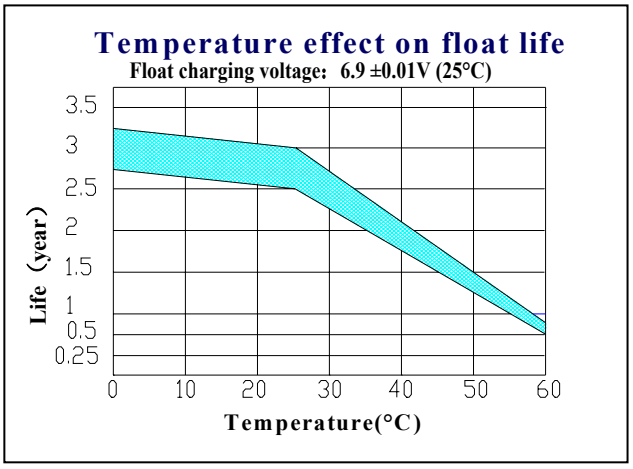
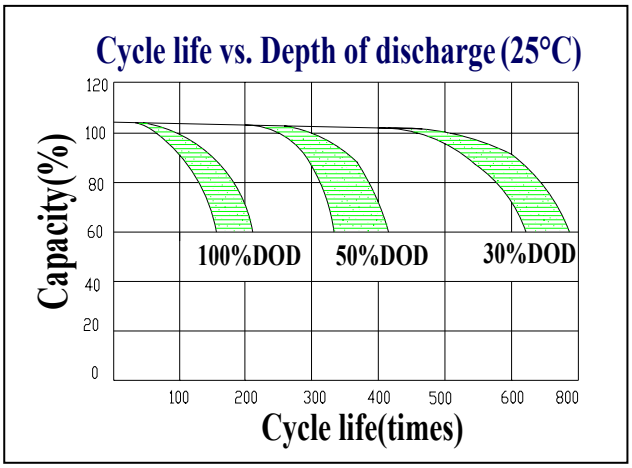
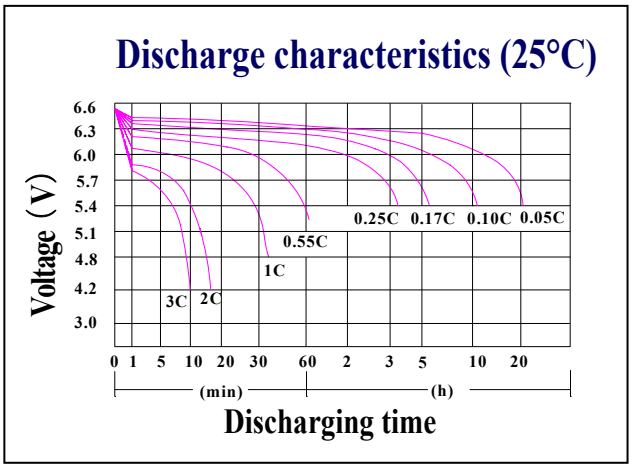
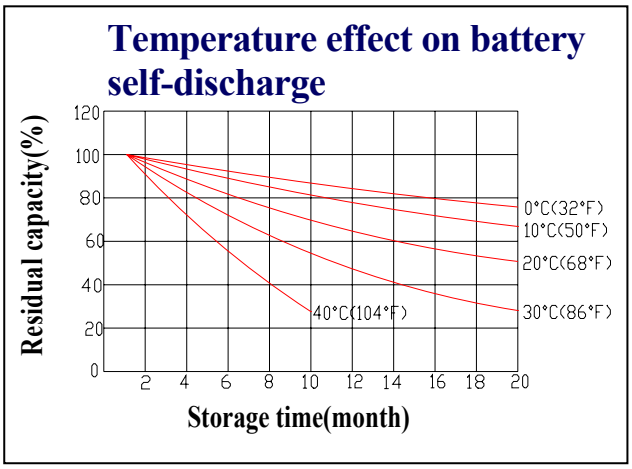
## Performance Characteristics

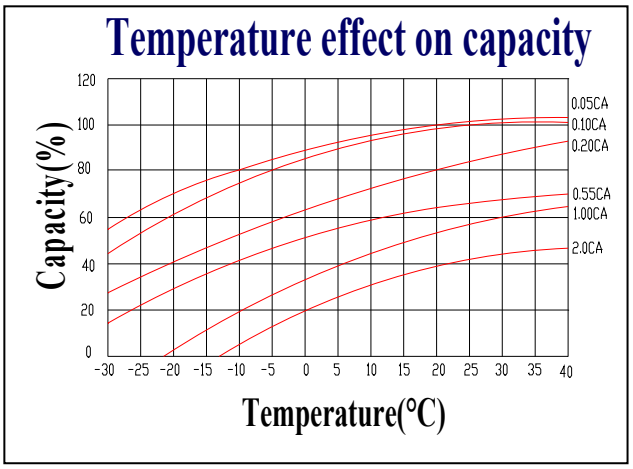



## Battery Construction

| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|---|---|---|---|---|---|---|---|---|
| **Raw material** | Lead dioxide | Lead | ABS | ABS | Si-Rubber | Copper | Fiberglass | Sulfuric acid |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