

Panasonic

Panasonic Storage Battery (Shenyang) Co., LTD (PSBS)

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Recommended Usage Condition for LC-XC1228

1. Discharge

| | |
|-----------------------------|------------------|
| Discharge current rang | 1.40A to 84.0A |
| Temperature range | -15°C to 50°C |
| Recommended cut-off voltage | Shown in Table 2 |

Table 2 Recommended cut-off Voltage

| Discharge Current | Recommended Cut-off Voltage |
|--------------------------------|-----------------------------|
| Below 0.2CA(5.60A) | 10.5V |
| 0.2CA to 0.5CA(5.60A to 14.0A) | 10.2V |
| 0.5CA to 1.0CA(14.0A to 28.0A) | 9.90V |
| 1.0CA to 2.0CA(28.0A to 56.0A) | 9.30V |
| 2.0CA to 3.0CA(56.0A to 84.0A) | 8.70V |

Do not allow the batteries to discharge below the recommended cut-off voltage.

2. Charge

| | |
|--|------------------|
| Current limited, constant voltage charge | |
| Initial charge current for cycle use | 2.80A to 11.20A |
| Temperature range | 0°C to 40°C |
| Charge voltage | shown in Table 3 |

Table 3 Charge Voltage

| Ambient Temperature | Charge Voltage(a) | Cycle Type(b) |
|---------------------|-------------------|---------------|
| 0°C | 15.20 to 15.60 | |
| 25°C | 14.50 to 14.90 | |
| 40°C | 14.00 to 14.40 | |

Notes:

- (a) Charge voltage refers to the voltage remaining at the end of charge.
- (b) For cycle type batteries, the time required to complete each charge depends on the discharged condition of the battery, characteristics of the charge used, and the temperature during charge. The charge time should be decided according to be the depth of discharge.

Panasonic Storage Battery (Shenyang) Co., LTD

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质量管理部

Quality Control Department