



AYAA TECHNOLOGY CO.,LTD

PCM Specifications

Model: PCM-LX10S20A-AY047(10S)

| Test item | | Criterion | |
|---|--|-----------------------------------|-----------------------------------|
| | | Lifepo4 | Li-ion/Li-polymer |
| Voltage | Charging voltage | DC 36V CC/CV(3.6V/cell) | DC:42V CC/CV(4.2V/cell) |
| | Balance voltage for single cell | 3.60±0.025V | 4.20±0.025V |
| Current | Current consumption for single cell | ≤20μA | ≤20μA |
| | Maximal continuous charging current | 20A | 20A |
| | Maximal continuous discharging current | 20A | 20A |
| | Balance current for single cell | 36±5mA | 42±5mA |
| Over charge Protection (single cell) | Over charge detection voltage | 3.90V±0.025V | 4.25±0.025V |
| | Over charge detection delay time | 0.5-2.0S | 0.5S—2.0S |
| | Over charge release voltage | 3.805±0.05V | 4.15 ±0.05V |
| Over discharge protection (single cell) | Over discharge detection voltage | 2.00±0.8V | 2.5±0.08V |
| | Over discharge detection delay time | 10-300mS | 10-300mS |
| | Over discharge release voltage | 2.3±0.1V | 3.0±0.1V |
| Over current protection (Battery pack) | Over current detection current | final data fixed from actual test | final data fixed from actual test |
| | Over current detection voltage | depend on the above points | depend on the above points |
| | Detection delay time | 5-20ms | 5-20ms |
| | Release condition | Cut load,Auto release | Cut load,Auto release |
| Short protection | Detection condition | Exterior short circuit | |
| | Detection delay time | 100~500us | |
| | Release condition | charge up | |
| Resistance | Protection circuitry | ≤50mΩ | |
| Temperature | Operating Temperature Range | -40~+85℃ | |
| | Storage Temperature Range | -40~+125℃ | |

SIZE: L60*W54.5*T7mm

| | | | | |
|----------------------|-----------------------------------|-------------|-------------|-------------|
| Optional Parameters: | Over charge detection voltage (V) | 4.28±0.025V | 4.25±0.025V | 3.65±0.025V |
| | Over charge release voltage(V) | 4.08±0.05V | 4.05±0.05V | 3.65±0.05V |
| | Over discharge detection voltage | 3.00±0.8V | 2.80±0.8V | 2.50±0.8V |
| | Over discharge release voltage(V) | 3.00±0.1V | 3.00±0.1V | 3.00±0.1V |

