



# LITHIUM

## ATLG12-300BT

**CERTIFICATIONS**  
UL1642 (Cell), CE (Pack), IEC62133 (Cell), UN38.3 (Cell / Pack), IEC62619 (Cell), ROHS (Cell)

MSDS



UN38.3



BLUETOOTH MONITORING FOR  
ANDROID AND IOS



5 YEARS WARRANTY

### Specifications

|                              |                               |                                                                             |                            |
|------------------------------|-------------------------------|-----------------------------------------------------------------------------|----------------------------|
| Electrical Specifications    | Nominal Voltage               | 12.8V                                                                       |                            |
|                              | Nominal Capacity              | 300 Ah                                                                      |                            |
|                              | Nominal Power                 | 3840 Wh                                                                     |                            |
|                              | Parallel Connection           | max 6 units                                                                 |                            |
|                              | Series Connection             | max 4 units                                                                 |                            |
|                              | Circuit Protection            | Overcharge, Over Discharge, Short Circuit, High Temperature, Cell Imbalance |                            |
|                              | Cycle life                    | 3000 cycles @100% DOD, 6000 cycles @80%DOD                                  |                            |
| Charge Specifications        | Charge Profile                | CC @ 0.2C to 14.4V, then CV @ 14.4V until current ≤ 0.01C (CC/CV)           |                            |
|                              | Max Charge Voltage            | 14.4 ± 0.2V                                                                 |                            |
|                              | Charge Current                | ≤150A (0.2C @ 60A)                                                          |                            |
|                              | Max Current                   | 150A                                                                        |                            |
| Discharge Specifications     | Recommended Discharge Current | ≤150A (0.2C @ 60A)                                                          |                            |
|                              | Max Continuous Current        | 200A                                                                        |                            |
|                              | Cut-off Voltage               | 10V                                                                         |                            |
| Environmental Specifications | Charge Temperature            | 0°C to 55°C                                                                 | 60 ± 25% Relative Humidity |
|                              | Discharge Temperature         | -20°C to 60°C                                                               |                            |
|                              | Storage Temperature           | -5°C to 45°C                                                                |                            |
| Mechanical Specifications    | Dimensions, mm                | 521x267x220 (Group 8D)                                                      |                            |
|                              | Approx Weight, kg             | 33                                                                          |                            |
|                              | Terminal type                 | M8                                                                          |                            |
|                              | Case Material                 | Plastic ABS                                                                 |                            |
|                              | IP Rating                     | IP65                                                                        |                            |
|                              | Cell Type                     | Cylindrical LiFePO4                                                         |                            |

| Circuit Protection                | Characteristic                   | Parameters                                                |
|-----------------------------------|----------------------------------|-----------------------------------------------------------|
| Over charge protection battery    | High voltage protection          | 15V                                                       |
|                                   | Recovery point                   | 14.4V                                                     |
|                                   | Reset trigger                    | auto release below recovery point                         |
|                                   | Time delay                       | 1s                                                        |
|                                   | Max charge current protection    | 145A                                                      |
|                                   | Charge current protection reset  | 140A                                                      |
|                                   | Time delay                       | 1s                                                        |
| Over discharge protection battery | Low voltage protection           | 10V                                                       |
|                                   | Recovery point                   | 10.4V                                                     |
|                                   | Reset trigger                    | cut load, press reset button or charge/apply voltage >12V |
|                                   | Time delay                       | 1s                                                        |
|                                   | Max discharge current protection | 800A                                                      |
|                                   | Reset trigger                    | cut load, auto release                                    |
|                                   | Time delay                       | 1s                                                        |

| Circuit Protection          | Characteristic                     | Parameters  |
|-----------------------------|------------------------------------|-------------|
| Short circuit protection    | Short circuit protection           | 850A        |
|                             | Time delay                         | 150 $\mu$ s |
| High temperature protection | Max charge temperature             | 65°C        |
|                             | Recovery point                     | 55°C        |
|                             | Time delay                         | 1s          |
|                             | Max discharge temperature          | 65°C        |
|                             | Recovery point                     | 55°C        |
|                             | Time delay                         | 1s          |
|                             | MOSFET over temperature protection | 85°C        |
| Cell imbalance protection   | Vcell balancing condition          | $\geq 3.3V$ |
|                             | Vcell, open difference             | $\leq 30mV$ |
|                             | Vcell, closed difference           | $\leq 20mV$ |
|                             | Balancing current                  | 30mA        |



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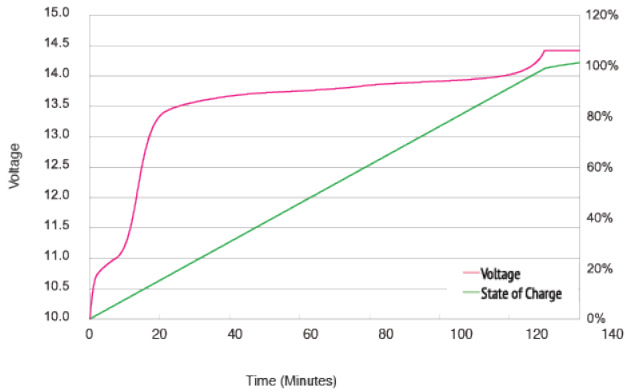
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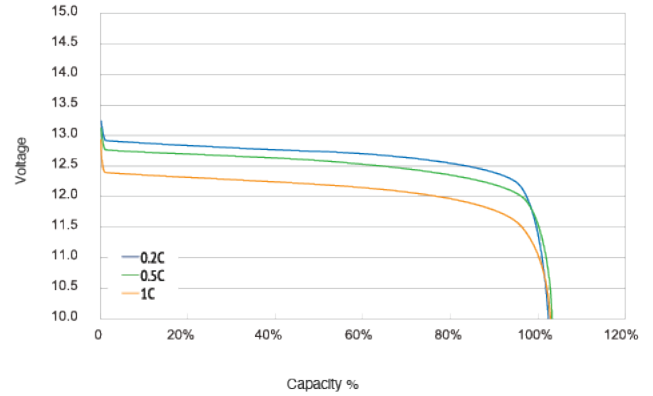
5 YEARS WARRANTY

### Characteristics Curve

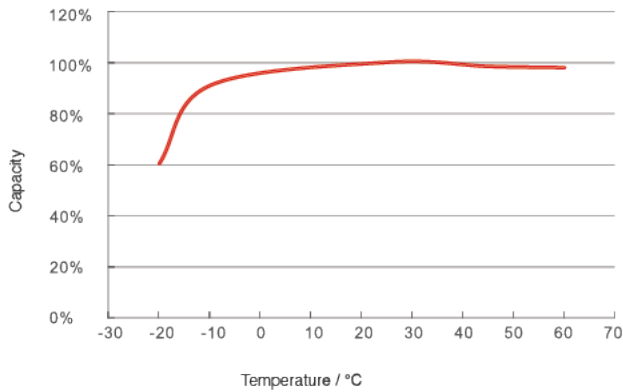
#### Charging Characteristics (0.5C @25°C)



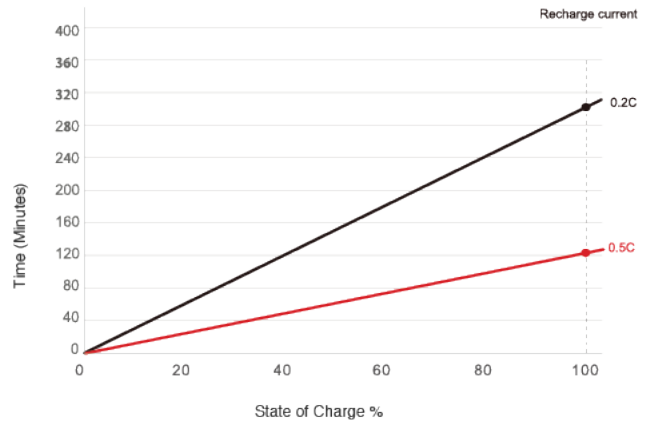
#### Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



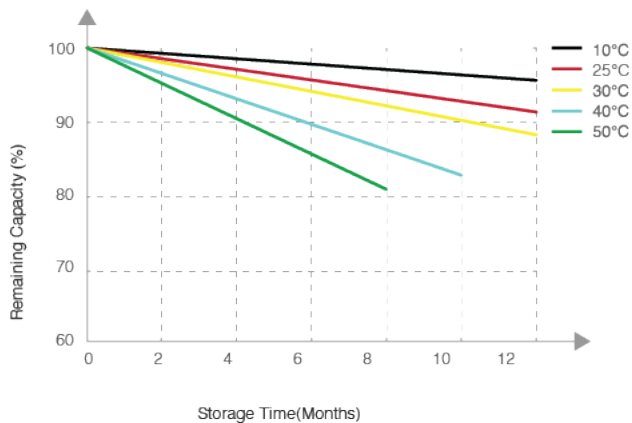
#### Different Temperature Capacity Curve



#### Typical Charge Time Curve



#### Different Temperature Self Discharge Curve



#### Different DOD Discharge Cycle Life Curve

