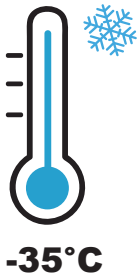




# Technical sheet

ULTMATRON LiFePO4 Smart BMS Golf Cart Lithium Battery  
ULG-72-105H-Ultra-Waterproof (with Heater)



Only suitable for 72V applications, supports parallel connection.

## Integrated Battery Management System (BMS)

To allow the control and the charge of the different elements of an accumulator battery and to protect it against overcharging, overvoltages and overheating.

## Heating Features

- ★ The integrated heating function starts automatically at temperatures below  $-10^{\circ}\text{C}$  when an external charging current (around 7A) is applied. The integrated heating function will not consume the energy from the battery.
- ★ Integrated Heating foils, the battery can be heated at the extreme environment in  $-35^{\circ}\text{C}$ .

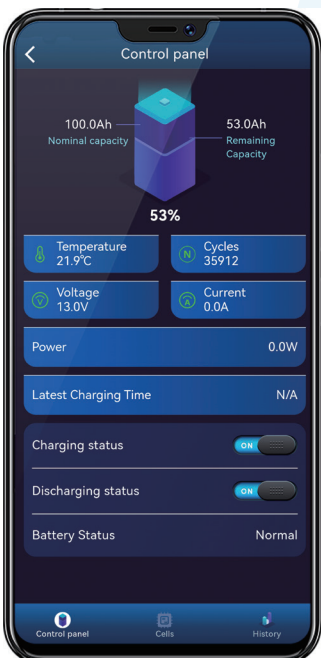
Compared with traditional batteries, our lithium iron phosphate batteries (LiFePO4) have many advantages:

- 5 years manufacturer's warranty
- The safest technology, without risk of fire or explosion
- Long service life
- Constantly improving storage capacity
- High stability even under extreme loads
- No memory effect, no need for full charge and discharge cycles
- High performance even under extreme conditions
- Deep and regular discharge and charging efficiency

## Integrated Bluetooth 5.1 monitoring



You have all important battery data always on your smartphone or tablet. The application displays the data in real time.





### ULTIMATRON LiFePO4 Smart BMS Golf Cart Lithium Battery ULG-72-105H-Ultra-Waterproof (with Heater)

#### ELECTRICAL PERFORMANCE

Nominal Voltage	73.6V
Nominal Capacity	105Ah
Capacity @ 20A	315min
Energy	7728Wh
Resistance	≤ 11 mΩ
Self Discharge	<3% / Month
Number of Cycles	>6000@80%D.o.D

#### CHARGE PERFORMANCE

Recommended Charge Current	20A
Maximum Charge Current	100A
Recommended Charge Voltage	83.95V
Charge Cut-Off Voltage	3.65V/cell
Reconnect Voltage	≤3.45V/cell
Balancing Voltage	>3.4V/cell

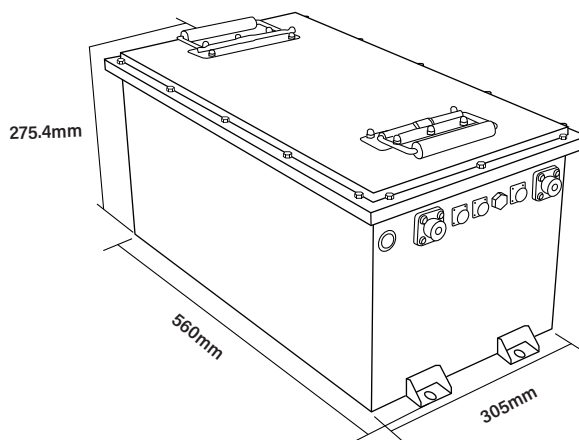
#### DISCHARGE PERFORMANCE

Maximum continuous Discharge Current	300A
Peak Discharge Cut-Off Current	600A (10s)
Discharge Cut-Off Voltage	2.65V/cell
Reconnect Voltage	>2.85V/cell
Short Circuit Protection	2545A (512μs)

#### TEMPERATURE PERFORMANCE

Discharge Temperature	-35 ~65 °C
Charge Temperature	-10 ~ 65 °C
Heater Working Temperature	-35 ~ 0 °C ❄️
Storage Temperature	5 ~ 45 °C

#### DIMENSION



Dimensions	L560* W302 * H275.4mm
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#### MECHANICAL PERFORMANCE

Weight	63.9kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Ingress Protection Code	IP67
Bluetooth	Bluetooth 5.1 with smartphone App
Heat foil	325W

#### COMPLIANCE

Certifications	CE UN38.3 UL1642 & IEC62133 ECE R10
Shipping Classification	UN 3480, CLASS 9