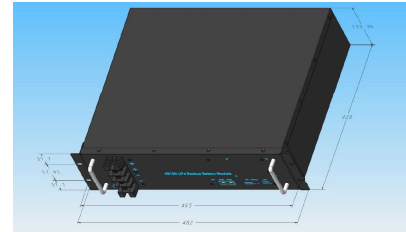


# IHHES-TL48100

## 48V Lithium-ion Battery System

LiFePO<sub>4</sub> Battery System for green solutions IHHES-TL48V series is a complete range of 48V LiFePO<sub>4</sub> (Lithium Iron phosphate) battery products, for a wide variety of applications, such as telecom base station, UPS, renewable energy system, etc., with advanced life, standard size, light weight and strong environmental adaptability.



Battery Management System (BMS) For standard IHHES lithium battery module, BMS is applied to monitor voltage, current, temperature of cells and module, take protections against over-charge, over-discharge, over-current, over-temperature, under-temperature and short circuit, etc., and provide cell balancing and current limitation during charging process to ensure a reliable safety and excellent performance.

Meantime, IHHES supply customized upper computer software for BMS communication via RS232 or RS485 or CAN to set parameters or read monitoring data.

### **Features**

- LONGER CYCLE LIFE – Proven LiFePO<sub>4</sub> chemistry, maximum cycle life for deep cycle and standby application.
- HIGH SAFETY – over-charge protection, over-discharge protection, high temperature protection, short-circuit protection, etc.
- HIGH ENERGY DENSITY – Delivers up to 4X the energy density of conventional lead acid batteries thanks to high capacity LFP battery cells and optimized structural design.
- EXTENDABLE CAPACITY – Support max 15 parallel connection to increase capacity.
- STRONG UPGRADABILITY – Intelligent monitors, remote communication by RS485/ RS232/ SNMP, ect.
- ACTIVE BALANCER – A balanced management system by transferring balanced energy to help to repair and maintain the cells voltage consistency in the battery, thus prolong the battery life.
- OPTIONAL – Software Anti-theft, Bluetooth APP mode, LED, GPS.

### **Main Applications**

- Backup power supply
- Energy storage system
- Stable grid, half-grid and other scenes

## IHES-TL48100

## 48V Lithium-ion Battery System

**Advantages****General Specifications**

Item	Description
Model	IHES- TL48100
Nominal voltage	48 V
Rated capacity	100 Ah (LiFePO4)
Nominal battery energy	4.8 kWh (0.2C @20 ± 5 °C)
Operating voltage range	40.3 ~ 54.5 V
Charge voltage	54.0±0.5 V
Max. charging current	100 A
Charging current (Recomm.)	20 A
Discharging current (Standard)	50 A ± 0.5A
Max. discharging current	100 A
Discharge cut-off voltage	40.3 V
Dimensions	482 x 420 x 133 (W x D x H in mm)
Weight	45 ± 0.5 kg
Communication	RS485/ CAN
Parallel	Max. support 15 sets of parallel
Balance function	Main active balance, passive balance as supplementary by.
Cycle life	5000 cycles @0.5C/0.5C
IP Rate	IP20
Altitude	≤ 4000M
Humidity	5% ~ 95%
Operating temperature range	Discharge -20 ~ + 60 °C
	Charge 0 ~ + 55 °C
	Storage -5 ~ + 45 °C
Compatible Inverters	Growatt/ Goodwe/ Victron/ Voltronic/ Sofar/ Pylon/Deye/ Solis/ Luxpowertek/ SRNE/ Must/ SMA/ SMK/SunGrow/ Magarevo/ Schneider ect.