

RHT-LFPW SERIES

PERFORMANCE PARAMETERS

Model No.	RHT-LFPW24V-100AH	RHT-LFPW24V-200AH	RHT-LFPW48V-100AH	RHT-LFPW48V-200AH	RHT-LFPW51.2V-100AH	RHT-LFPW51.2V-200AH
Electrical Characteristic						
Nominal Voltage(V)	25.6V		48V		51.2V	
Nominal Capacity	100AH	200AH	100AH	200AH	100AH	200AH
Battery Energy	2.56KWH	5.12KWH	4.8KWH	9.6KWH	5.12KWH	10.24KWH
Working Voltage Range	21.6~29.2V		40.5~54.75V		43.2~58.4V	
Internal Resistance	≅ 50mΩ					
Max Output Power	2.56KW	2.56 KW as default(3.84 KW/5.12KWH optional)	4.8KW	4.8 KW as default(7.2 KW/9.6 KW optional)	5.12KW	5.12KW as default(7.68KW/10.24 KW optional)
Self discharge rate	≅ 3% per month @25°C					
Max Connection	16 pcs in parallel					
Cycle Life	> 6000cycles @0.5C@80%DOD@25°C					
Working Temperature	-20°C~60°C/-4°F~140°F					
Storage Temperature	-20°C~45°C/-4°F~113°F					
Charging & Discharging Characteristic						
Standard Charging Current	50A	50A(default)	50A	50A(default)	50A	50A(default)
Max Charging Current	100A	100A(default)	100A	100A(default)	100A	100A(default)
Charge Method	CC-CV					
Charge cut- off Voltage	28.8V		54V		57.6V	
Standard Discharging Current	50A	50A(default)	50A	50A(default)	50A	50A(default)
Max Discharging Current	100A	100A(default)	100A	100A(default)	100A	100A(default)
Discharge cut- off Voltage	23.2V		43.5V		46.4V	
BMS Characteristic						
Continuous Discharge Current	100ADefault, 150A/200A optional for 200AH model)					
Short Current Protection	Support, recover when re- charge					
BMS Pre- charge Function	Support,2000 ms					
Over current Protection	110A(Default)					
Over Current Reaction Time	30ms					
Overcharge Protection	29.2V		54.75V		58.4V	
Over discharge Protection	21.6V		40.5V		43.2V	
Communication Function	CANBUS/ RS485					
Working Temperature	-20°C~70°C/-4°F~158°F					
Mechanical Characteristic						
Battery Cell Type	Prismatic battery cell					
Battery Cell Material	LiFePO4					
Battery Cell Layout	8S1P		15S1P		16S1P	
Dimension	510*505*187mm	510*505*187mm	605*405*200mm	620*520*256mm	605*405*200mm	620*520*256mm
Net Weight	29KG/63.93LBS	48KG/ 105.82LBS	45KG/99.2LBS	80KG/ 176.37LBS	47KGS/ 103.6LBS	84KGS/ 185.18LBS
Shell Material	Iron					
Protection Level	IP54					
Warranty	5 years					
Accessory	1.2m 4AWG positive&negative wire *2 pcs 1m RJ45 wire *1 pc User manual * 1 pc					
Interface	Quick connect terminal* 4 (positive* 2 / Negative* 2) RS485 terminal* 2 CANBUS terminal* 1 Address dial* 1 SOC indicator* 1 LCD display dashboard* 1					
Packing	Wooden box (Heavy carton box optional)					

BMS



LiFePO4 Cell Package



Battery Pack



KEY FEATURES

- ▶ Small size, light weight
- ▶ No maintenance
- ▶ Environmental protection and pollution-free material, no heavy metals, green environmental protection
- ▶ More than 6000 times standard cycle life
- ▶ Accurately estimate the charged state of the battery string, that is, the remaining battery capacity, to ensure that the battery capacity is within a reasonable range
- ▶ Built-in BMS management system, with comprehensive protection and monitoring control functions



PRODUCT INTRODUCTION

This product is composed of high quality lithium iron phosphate cell (series and parallel) and advanced battery management system(BMS). It can be used as an independent DC power supply, or as a "basic unit" to form a variety of specifications of energy storage lithium battery power system, with high reliability and long life. It can be used as backup power supply of communication base station, backup power supply of digital center, home energy storage power supply, industrial energy storage power supply, etc.

Cautions:

- ▶ Do NOT expose the battery to water;
- ▶ Do NOT expose the battery to fire & high temperature;
- ▶ Do NOT short circuit, crush or disassemble;
- ▶ Make sure the inverter's setting matches with the battery's charge & discharge characteristic;
- ▶ Store at 50% capacity, and recharge the battery every 3 months;
- ▶ The storage area should be clean, cool, dry and ventilated;
- ▶ Disconnect the battery from the inverter and shut down the BMS when the battery is in storage status;
- ▶ Maximum connection in 16 parallel, no series connection supported.

LIST OF INVERTERS SUPPORTED

Brand	Communication Protocol	Method
GOODWE	Goodwe communication agreement-V1.5	CAN
PYLONTECH	CAN-Bus-protocal-PYLON-V1.3	CAN
GROWATT	Growatt BMS CAN-Bus-protocal_x005f low-voltage-V1.05 -EN version	CAN
VICTRON	canbus_bms_protocol	CAN
LXP	Luxpowertek Battery CAN Protocol	CAN
SOFAR	CAN-Bus-protocol REV5	CAN
DEYE	CAN-Bus-protocal-PYLON-V1.3	CAN
FOXESS	CAN-Bus-protocal-PYLON-V1.3	CAN
RENAC	CAN-Bus-protocal-PYLON-V1.3	CAN
SERMATEC	CAN-Bus-protocal-PYLON-V1.3	CAN
TBB	CAN-Bus-protocal-PYLON-V1.3	CAN
SOLIS	Goodwe communication agreement	CAN
SMA	SMA-BMZ-Protocol-en- 10	CAN

TEST RESOLUTIONS

