



**51.2V 14.4kWh LiFePO4**  
51.2V Home Energy Storage Rack Battery



### More energy available

90% discharge  
Optimising energy at module level



### Flexible investment

Modular design  
Up to 33pcs in parallel



### Safe & Secure

Lithium Iron Phosphate battery(LFP)  
Low voltage safety connection



### Easy installation

Simple and easy operation



### WiFi+APP

Power generation data  
monitoring platform and APP



### Perfectly applicable

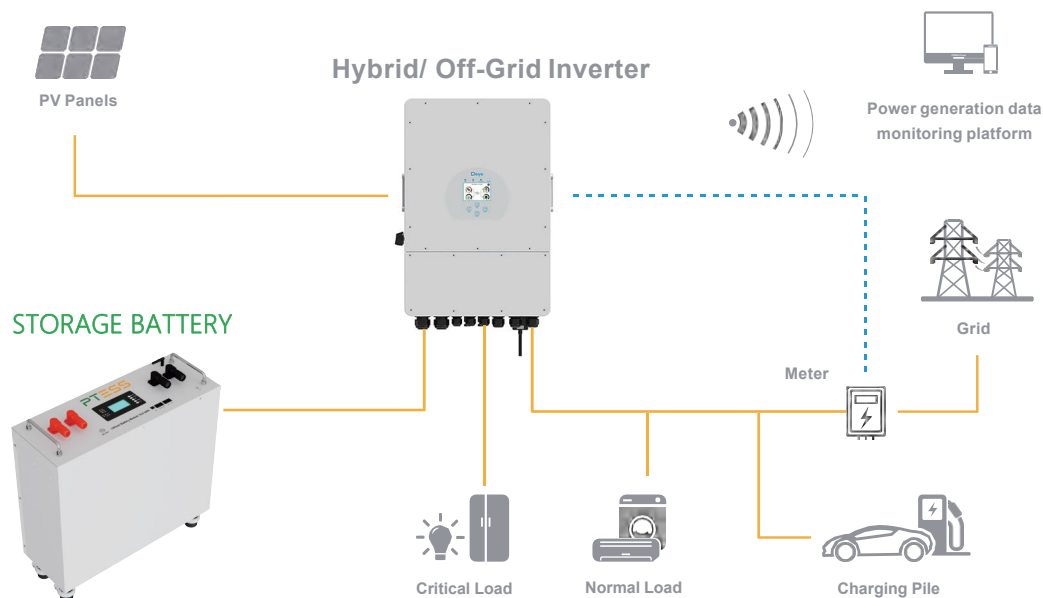
Applicable to single-phase and  
three-phase residential inverters

## Compatible inverter brands:

**-DEYE/Luxpower/Growatt/Megarevo/Goodwe/MUST/SRNE/EPEVER/Afore**

**-SMA/Studer/ Solax/Solis/Sofar/Schneider/Sorotec/SMK/Victron/Voltronic/INHENERGY**

# Hybrid Solar System



## PT-ESS-R14400

### BATTERY MODULE SPECIFICATION

Battery/Cell Type	LFP
Nominal Voltage (Vdc)	51.2V
Nominal Capacity (Ah)	280Ah
Total Energy (Wh)	14400
Max. Charge and Discharge Current (A)	160/200
Recommend Charge and Discharge Current(A)	100
Recommend DOD	90%
Operating Voltage Range (Vdc)	43.2-57.6
Discharge Cut-off Voltage (V)	40
Parallel	Up to 33 connected in parallel
Calendar Life	20 years @25°C, 15 years @35°C, 10 years @45°C
Cycle Life	≥6000 cycles at 90% DOD
Warranty	5 years (designed lifetime 15 years)

### COMMUNICATION

Display	LCD Screen
Communication	CAN(IN&OUT) between modules in Parallel, CAN bus/RS485 to inverter,USB to PC Monitoring
WIFI Function	Wifi for APP and Platform Monitoring

### STANDARD COMPLIANCE

Safety (Cell level)	IEC62619 / IEC62619 / CE / ROHS / MSDS /UN38.3
Safety (Module level)	IEC61000 / CE / ROHS / MSDS /UN38.3

### MECHANICAL SPECIFICATIONS

Dimensions (W x H x D) (mm)	676*530*230
Weight (kgs)	125
Installation	Floor standing
Operating Temperature <sup>(4)</sup> Charge/Discharge (°C)	-20 to +55
Storage Temperature (6 months between recharge) (°C)	-20 to +35
Cooling Method	Natural convection
Noise (at 1m distance) (dBA)	<25