

Pytes

Forest R



Introduction

The Forest R, a new generation of energy storage products that integrate inverters and batteries, and is a landmark "New Home appliance". Forest R can manage your energy usage throughout the day, provide smart configurable backup power during grid outages and power smart homes with solar energy, day and night.

Specification

General Specification

Capacity	5.12kWh per battery module, up to 6 modules
Transfer switch	Automatic, integrated
Listed and recognized certificates	Battery modules: UL1973, CE, UN38.3 Inverter : UL1741 SB, CA Rule 21, HECO Rule14H
Warranty	Battery: 10 years or 6,000 cycles Inverter: 10 years Cabinet: 10 years
Temperature range	Charge:32~113°F, Discharge:14~122°F

Battery Module Specification

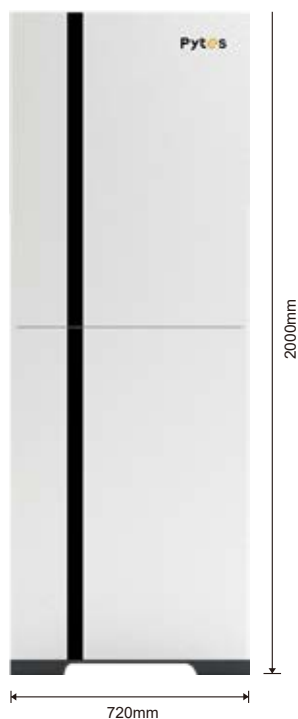
DC battery input voltage	47.5–57.6V
Max. charge rate	0.5C
Cell discharge	5.12kWh with 90% DoD
Overcharge Protection	MOSFET & Fuse protection

Technical Specification

	R2	R3	R4	R5	R6
Capacity	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Nominal voltage	51.2V				
Amps hours	200Ah	300Ah	400Ah	500Ah	600Ah
Weight (approximate)	330lbs	440lbs	551lbs	661lbs	771lbs
Dimensions (L*W*H)	28.34 * 17.71 * 74.80 inch (720 * 450 * 1900 mm)				

Inverter	Sol-Ark-5K-P	Sol-Ark-8K-48-ST	Sol-Ark-12K-P	Sol-Ark-15K-LV
Solar output power	5000W	9000W	12000W	15000W
Max DC voltage	500V@18A, 450V@20A	500V@18A, 450V@20A	500V@18A, 450V@20A	500V@26A
MPPT voltage range	150~425V	150~425V	150~425V	150~425V
Start-up voltage	125V	125V	125V	125V
No. of MPPT trackers	2	2	2	3
Max DC current per MPPT (self limiting)	10A	20A	20A	26A
Rated AC output power	5000W 20.8A-L (240V)	8000W 33.3A L-L (240V)	9000W 37.5A L-L (240V)	12000W 50A-L(240V)
Parallel stacking	Not supported	Not supported	Yes	Yes
Grid type	120/240/208V split phase	120/240/208V split phase	120/240/208V split phase	120/240/208V split phase

Designed for one hybrid inverter + 2~6 pcs batteries



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Pros

AC Coupling to Existing Inverters

- 12kW DC Coupling
- 20kW Peak Power
- 6000 Cycle Battery
- 4ms Transfer Time
- Generator Support
- Parallel Stacking
- 10yr Warranty
- Battery Agnostic
- Battery Losses 7%
- Excellent Technical Support

System



Lithium Iron Phosphate Battery Module
E-BOX-48100R (5kWh)



Sol-Ark Hybrid
Inverter Series



Stacked up to 8pcs with
R-Brackets (40kWh in total)



Or Forest R Cabinet



Sol-Ark hybrid inverter



2~6 pcs E-BOX-48100R
(From 10kWh to 30kWh)