

# ALL-IN-ONE +

## PV + ESS/Air Cooling

20kW/51.2kWh  
30kW/61.4kWh  
50kW/107kWh



PV&ESS ALL-IN-ONE system is an integrated PV storage device designed to meet the needs of ESS and PV storage distribution. The equipment has energy-saving, high energy density, fast access to and/or off grid photovoltaics, strong environmental adaptability, small space occupation, and particularly outstanding performance in distribution and storage. The integrated light storage machine consists of a cabinet, air-cooled air conditioning, inverter, BMS, Battery cluster, fire protection system, electrical safety auxiliary system, etc. Diversified applications in optical storage projects and off grid integrated projects.

### Technical Parameter

System specifications	20kW/51.2kWh	30kW/61.44kWh	50kW/107kWh
System battery DC voltage	512V	614V	716V
Battery voltage range	432-576VDC	490-690VDC	582-806VDC
Cell type	LFP 3.2V/100Ah	LFP 3.2V/100Ah	LFP 3.2V/150Ah
Single PACK configuration	102.4V100Ah/10.24kWh	102.4V100Ah/10.24kWh	102.4V150Ah/15.36kWh
Number of system PACKs	5PCS	6PCS	7PCS
Total system capacity	51.2kWh	61.44kWh	107kWh
Rated power of inverter	20kW	30kW	50kW
MAX. PV input power	26kW	39kW	65kW
Charge discharge rate	≥0.5C	≥0.5C	≥0. 5C
Thermal management method	Intelligent air cooling		
Discharge depth&Battery life	90%DOD >6000Times (0.5C@25°C) Energy retention rate≥80%		
Fire Protection Plan	PACK aerosol/Cabinet aerosol		
Rated grid voltage	380V AC (3L+N+PE)		
Rated grid frequency	50/60Hz ±5Hz		
Communication method	CAN/RS485/WiFi (4G Optional)		
Operating mode	On/off grid		
Access method	Communication bottom inlet/3phase/3L+N+PE		
Temperature for use	0°C~+50°C		
Environmental humidity for use	0~95%RH		
storage temperature	-20°C~+60°C		
Working altitude	2000m (>2000mReduced usage)		
protection grade	IP54		
Product size	1100×1260×1525mm	1100×1260×1725mm	1255×1445×1960mm
Product weight	1100kg	1250kg	2100kg