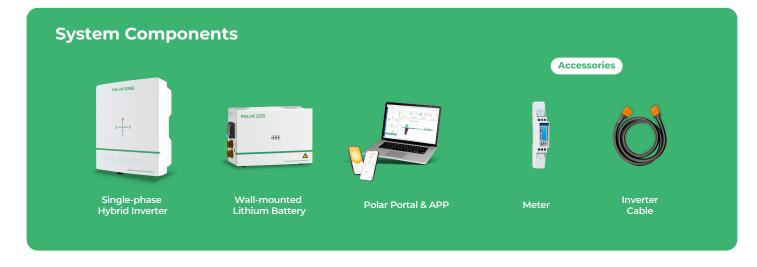


Residential Energy Storage System

-Whole-home backup

Experience seamless home energy with the Polar ESS household storage system. One unit powers your entire home, offering affordable whole-home backup protection and ensuring you stay powered up during any outage.





Single-phase Hybrid Inverter

3.6kW | 4.6kW | 5.0kW | 6.0kW

- 5500kW backup power to support whole-home loads.
- 2 MPPTs, Max . PV input 9kW.
- Support up to 6 units in parallel.
- IP65 water and dust resistance.
- Zero Export Setting available
- In-built WiFi plus LAN to give you a fast, reliable connection.
- Meet even high energy needs, with output power of up to 9000W.
- UPS function, 10ms transition.
- Easy to install and setup



ALPS Cube HY3.6 Pro	ALPS Cube HY4.6 Pro	ALPS Cube HY5.0 Pro	ALPS Cube HY6.0 P				
Input Data (PV)							
5400W	6900W	7500W	9000W				
80V							
600V							
90V-550V							
360V							
2*23A							
17A/17A							
2/1							
Batt	ery						
Li-ion							
46.7-57.6V							
48V							
83A/83A	104A/104A	120A/120A	120A/120A				
4000W/4000W	5000W/5000W	5800W/5800W	5800W/5800W				
RS485/CAN							
Output D	Pata (AC)						
3600W	4600W	5000W	6000W				
3600VA	4600VA	5000VA	6000VA				
	83A/83A 4000W/4000W Output E	Input Data (PV)	5400W 6900W 7500W 80V 600V 90V-550V 360V 2*23A 17A/17A 2/1 Battery Li-ion 46.7-57.6V 48V 83A/83A 104A/104A 120A/120A 4000W/4000W 5000W/5000W 5800W/5800W RS485/CAN Output Data (AC) 3600W 4600W 5000W				

Max. Output Current	16A	20A	21.7A	26A		
Nominal Voltage/ Range		230V/18	80270V			
Frequency Range	50 /60Hz; ±5Hz					
Power Factor (@Full Load)	>0.99					
Power Factor Range	0.8 Lagging - 0.8 Leading					
THDI (@Rated Power)	<3%					
AC Output Type	Single Phase					
	Output Data (A	AC, Backup)				
Nominal AC Output Power	3600W	4600W	5000W	5500W		
Nominal Voltage	230V					
Max. Output Current	16A	20A	21.7A	23.9A		
Nominal Frequency	50 Hz					
Automatic Switch Time	10ms					
THDv (Linear Load)	<3%					
	General	Data				
PV Max. Efficiency	97.60%					
Euro Efficiency	97%					
MPPT Efficiency	99.90%					
Ingress Protection	IP65					
Protective Class	I					
Noise Emission (Typical)	<30dB					
Operation Temperature	-25~+60°C					
Cooling	Nature					
Relative Humidity	0~100%					
Altitude	4000m (Derating above 2000 m)					
Dimensions (WXHXD)	480mm*560mm*210mm					
Weight	30kg					
Inverter Topology	Transformerless					
Self-consumption	<5W					
Communication Interface	RS485/CAN/LAN/WIFI/USB/DIDO					
Monitoring		LAN/WIFI/4	G (Optional)			
	Featu	res				
Display LCD Interface	LED & APP Communication with MeterPluggable connector					