

ALPS Series**Hybrid Inverter 8.0kW**

Designed to offer an **economical** solution with **premium functionality**, the hybrid inverter combines the benefits of grid-tied and off-grid systems, allowing you to **optimize** your energy usage and **save cost** while ensuring reliable power supply.

MEET THE POLAR ESS HYBRID INVERTER.

- A solar inverter and a battery inverter in one unit
- 3.6-8.0kW power capacity options, to meet your power needs
- Displays key info like charging/discharging voltage and current





SCALABLE

Supports multiple parallel operations, so you can scale as you like.



ECONOMICAL

Seriously high cost-performance ratio, featuring 2MPPTs, wide PV voltage range and LCD display.



LINKABLE

Connect your third-party devices via dry contact or DI port.



AFFORDABLE

Coming to you at 50-60% of the cost of the industry heavies.

Model	
ALPS HY8.0-GL	
Input Data (PV)	
Max. PV Input Power	12000W
Start-up Voltage	110V
Max. PV Open-circuit Voltage	550V
MPPT Voltage Range	90V-530V
Rated MPPT Voltage	360V
Max. PV Short-circuit Current	2*23A
Max. PV Input Current	20A/20A
MPPT Tracker/No. of Strings per MPPT Tracker	2 / 1
Battery	
Battery Type	Lead-acid or Li-ion
Battery Voltage Range	46.7-57.6V
Nominal Voltage	51.2V
Max. Charging/Discharging Current	175A/175A
Max. Battery Charging/Discharging Power	8500W/8800W
Battery Communication	RS485 / CAN
Output Data (AC)	
Rated AC Output Power	8000W
Rated/Max. Apparent Power	8000VA
Rated/Max. Output Current	34Aa.c.
Nominal Grid Voltage/Range	230V/184-260V
Nominal Frequency/Range	50±5Hz
Power Factor(@Full Load)	>0.99

Power Factor Range	0.85 Lagging - 0.85 Leading
THDI (@Rated Power)	<3%
AC Output Topology	Single Phase
Backup	
Nominal EPS Output Power	8000W
EPS Peak Power (10s)	16000VA
AC Nominal Voltage	230Va.c.
Rated/Max. Output Current	34Aa.c.
Nominal Frequency	50 Hz
Automatic Switch Time	≤10ms
THDV (Linear Load)	<3%
General Data	
Battery Max. Charging/Discharging Efficiency	94%/94%
PV to AC Max. Efficiency	97.00%
Euro Efficiency	96.5%
MPPT Efficiency	99.90%
Ingress Protection	IP20
Protective Class	I
Overvoltage Category	PV: II, Battery: II, AC: III
Inverter Topology	PV: Transformer-less; Battery: Isolated
Cooling	Forced Air Cooling
Noise Emission (Typical)	<45dB
Operating Temperature Range	-25~60 C
Full Load Operation Temperature	-25~45 C
Relative Humidity	0~100%, Non-condensing
Max. Altitude	4000m (Derating above 2000 m)
Dimensions (W×H×D)	455mm×425mm×190mm
Weight	25kg
Self-consumption	10W
Display	LCD / LED

Interface	Communication with Meter RS485: Pluggable Connector Communication with Portal: Wi-Fi (USB) 2×Programmable DI/DO
Warranty	3 Years
Certificates	CE, UKCA, G98, G99, EN50549, C10/11, VDE-N4105, NTS2.1, UNE217001, NRS097, AS4777.2

