





HYBRID INVERTER


## ALPS Hybrid Inverter 3.6/4.6/5.0/6.0/8.0KW


 2 MPPTs, with max.12kW PV input.

 8kW AC output, with on/off grid, 2 times overload ability (10s).

 LCD with switch, and advanced cloud platform.

 Diesel generator access support, intelligent SOC control.

 6 units in parallel, on/off-grid synchronous application.

 < 10ms seamless automatic switch time.

Model	ALPS HY3.6-GL	ALPS HY4.6-GL	ALPS HY5.0-GL	ALPS HY6.0-GL	ALPS HY8.0-GL
<b>Input Data (PV)</b>					
Max. PV Input Power	5400W	7000W	7500W	9000W	12000W
Start-up Voltage	90V				
Max. PV Open-circuit Voltage	550V				
MPPT Voltage Range	90V-530V				
Rated MPPT Voltage	360V		380V		
Max. PV Short-circuit Current	23A/23A				
Max. PV Input Current	17A/17A		20A/20A		
MPPT Tracker/ No. of Strings Per MPPT Tracker	2 / 1				
<b>Battery</b>					
Battery Type	Li-ion/Lead-acid				
Battery Voltage Range	46.7-57.6V				
Nominal Voltage	51.2V				
Max. Charging/Discharging Current	83A/83A	104A/104A	112A/112A	130A/130A	175A/175A
Max. Charging/Discharging Power	4000W/4000W	5000W/5000W	5400W/5400W	6500W/6500W	8500W/8800W
Battery Communication	RS485 / CAN				
<b>Output Data(AC, On-grid)</b>					
Rated/Max. AC Output Power	3600W	4600W	5000W	6000W	8000W
Max. Apparent Power	3600VA	4600VA	5000VA	6000VA	8000VA
Rated/Max. Current	16Aa.c.	20Aa.c.	21.7Aa.c.	26Aa.c.	34Aa.c.
Nominal Grid Voltage/Range	230V.a.c / 180--270V.a.c				
Nominal Frequency/Range	50Hz/60Hz;±5Hz				
Power Factor(@Full Load)	>0.99				
Power Factor Adjustable Range	0.8 Lagging - 0.8 Leading				0.85 Lagging - 0.85 Leading
THDI (@Rated Power)	<3%				
AC Output Type	Single phase:L+N+PE				
<b>Output Data(AC, Back-up)</b>					
Nominal EPS Output Power	3600W	4600W	5000W	6000W	8000W
EPS Peak Power (10s)	7200VA	9200VA	10000VA	12000VA	12000VA
AC Nominal Voltage	230V.a.c.				
Rated/Max. Output Current	16Aa.c.	20Aa.c.	21.7Aa.c.	26Aa.c.	34Aa.c.
Nominal Frequency	50/60 Hz				
Automatic Switch Time	≤10ms				
THDv (Linear Load)	<3%				
<b>General Data</b>					
Battery Max. Charging/ Discharging Efficiency	94% / 94%				
PV To AC Max. Efficiency	97.00%				
Euro Efficiency	96.5%				
PV MPPT Efficiency	99.90%				
Ingress Protection	IP20				
Protective Class	Class I				
Overvoltage Category	PV: II, Battery: II, AC: III				
Cooling	Forced Air Cooling				
Noise Emission (Typical)	<45dB				<58dB(@1m)
Operating Temperature Range	-20~+60 C				
Full load Operation Temperature	-20~+45 C				
Relative Humidity	0~100%, Non-condensing				
Max. Altitude	4000m ( Derating above 2000m)				
Dimensions (WxHxD)	425*455*190(mm)				
Weight	22kg				24.7kg
Self-consumption	≤10W				
Display	LCD/LED+APP				
Interface	Communication with Meter - Pluggable Connector Communication with Portal - Wi-Fi (USB)				
Certificates	CE, UKCA, G98, G99, NRS097, EN50549, C10/11, VDE-N4105, NTS2.1, UNE217001, AS4777.2				
Warranty	3 Years				