

SINGLE PHASE HYBRID INVERTER

Alpha 10KW

FEATURES



COLORFUL TOUCH LCD, IP65 PROTECTION DEGREE



AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM Double output



MAX. 16 PCS PARALLEL FOR ON-GRID AND OFF-GRID OPERATION; SUPPORT MULTIPLE BATTERIES PARALLEL



MAX. CHARGING/DISCHARGING CURRENT OF 250A



6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING SMART LOAD



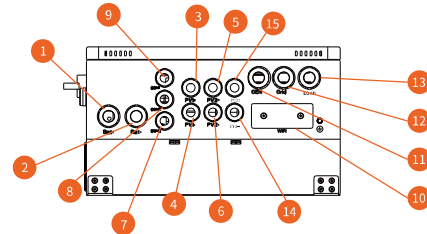
SUPPORT STORING ENERGY FROM DIESEL GENERATOR



SMART LOAD

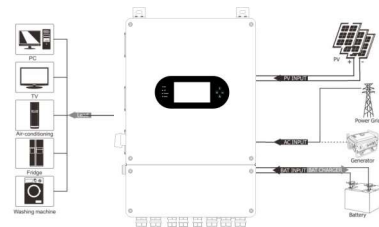


PRODUCT CHARACTERISTICS



- 1.Bat+ 3.PV1+ 5.PV2+ 7.COM3 9.COM1 11.GEN/Smart
- 2.Bat- 4.PV1- 6.PV2- 8.COM2 10.WIFI 12.Grid
- 13.LOAD 14.PV3+ 15.PV3-

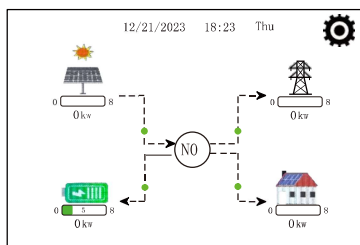
BASIC SYSTEM ARCHITECTURE



CERTIFICATIONS



LCD DISPLAY ICONS



Data Sheet

Model	Alpha 10KW
Battery Input Date	
Battery Type	Lead-acid or Li-Ion
Battery Voltage Range(V)	40-60
Max. Charging Current(A)	220
Max. Discharging Current(A)	220
Charging Curve	3 Stages / Equalization
External Temperature Sensor	yes
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power(W)	13000
PV Input Voltage(V)	370V (125V~500V)
MPPT Range(V)	150~425V
Full Load DC Voltage Range	200~425V
Start-up Voltage(V)	125V
PV Input Current(A)	26+26+26
No. of MPPT Trackers	3
No. of Strings Per MPPT Tracker	2+2+2
AC Output Data	
Rated AC Output and UPS Power(W)	10000
Max. AC Output Power(W)	11000
Peak Power(o ffgid)	2 times of rated power, 10 s
AC Output Rated Current(A)	43.5
Max. AC Current(A)	47.8
Max. Continuous AC Passthrough(A)	60
Power Factor	0.8 leading - 0.8 lagging
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230V (single phase)
Grid Type	Single Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC current injection	<0.5% in
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	>99%
Protection	
PV Arc Fault Detection	Integrated
PV Input Lightning Protection	Integrated
Anti-islanding Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
Output Over Current Protection	Integrated
Output Shorted Protection	Integrated
Over Voltage Category	Integrated
Surge Protection	DC Type II / AC Type II
Certifications and Standards	
Grid Regulation	IEC61727/EN50549-1
EMC/Safety Regulation	IEC/EN 61000-6/2/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range(°C)	-40~60°C, >45°C Derating
Cooling	Smart cooling
Noise(dB)	<30 dB
Communication with BMS	RS485; CAN
Weight(kg)	31
Cabinet size(mm)	330W*580H*232D (Excluding connectors and brackets)
Protection Degree	Ip65
Installation Style	Wall-mounted
Warranty	5 Years (10 Years Optional)