

# ALKA310H Series

## On/Off Grid Hybrid Solar Inverter



### ► Product snapshot:

Model : 1-5KW

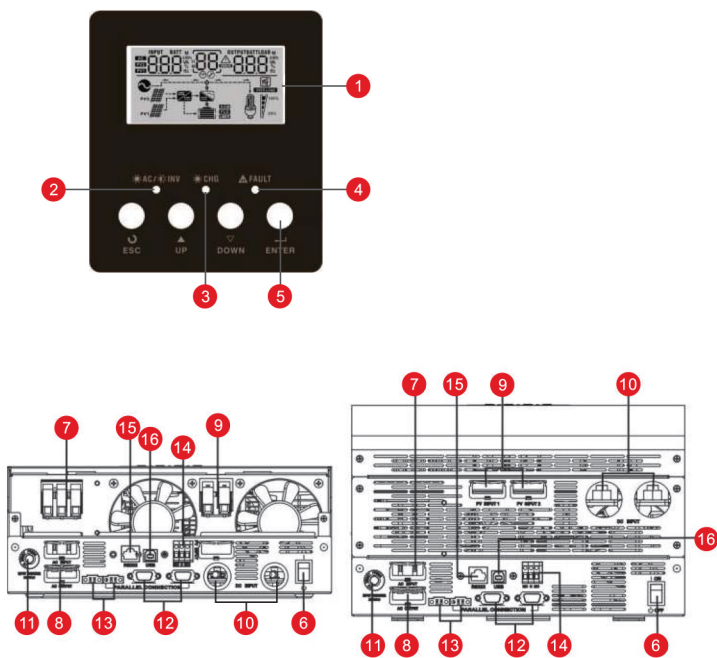
Nominal Voltage : 220/230/240 VAC

Nominal Frequency : 50/60HZ

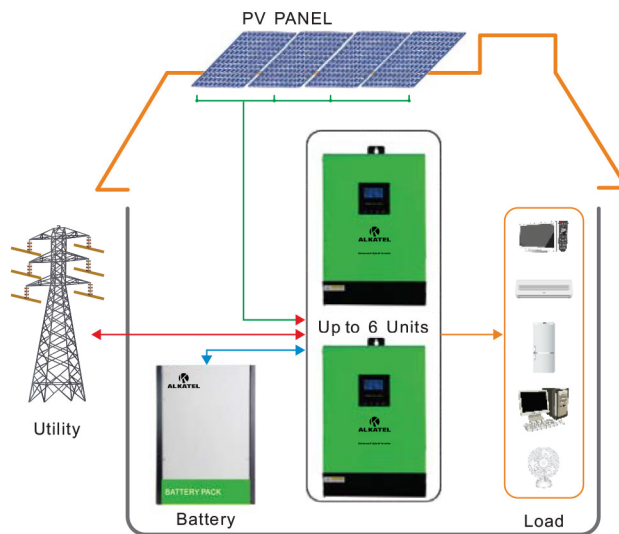
### Features:

- Pure sine wave output
- On/Off grid inverter with energy storage
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units only for 3K/4K/5K models
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup

### LCD Display Information



- |   |                                  |
|---|----------------------------------|
| 1. LCD display                            | 9. PV connectors                 |
| 2. Status indicator                       | 10. Battery connectors           |
| 3. Charging indicator                     | 11. Circuit breaker              |
| 4. Fault indicator                        | 12. Parallel communication cable |
| 5. Function buttons                       | 13. Current sharing cable        |
| 6. Power on/off switch                    | 14. Dry contact                  |
| 7. Grid connectors                        | 15. RS-232 communication port    |
| 8. AC output connectors (Load connection) | 16. USB communication port       |



### Back Panel



# ALKA310H

## Wall Mounted Integrated Solar Power Inverter technical specification

### Built-in MPPT Solar controller

MODEL	1K-12	2K-24	3K-48	4K-48	5K-48
Max. PV Array Power	1000W	2000W	4000W	4000W	6000W
Rated Output Power	1000W	2000W	3000W	4000W	5000W
Maximum PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC	145 VDC	145 VDC
MPPT Range @ Operating Voltage	15 ~ 115 VDC	30 ~ 115 VDC	60 ~ 115 VDC	60 ~ 115 VDC	60 ~ 115 VDC
MPP Tracker Number	1	1	1	1	2
<b>GRID-TIE OPERATION</b>					
<b>GRID OUTPUT (AC)</b>					
Nominal Output Voltage	220/230/240 VAC				
Output Voltage Range	184 - 264.5 VAC				
Nominal Output Current	4.3 A	8.7 A	13 A	17.4 A	21.7 A
Power Factor	> 0.99				
<b>EFFICIENCY</b>					
Maximum Conversion Efficiency (DC/AC)	90%				
<b>OFF-GRID, HYBRID OPERATION</b>					
<b>GRID INPUT</b>					
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
Maximum AC Input Current	30A		40A		
<b>BATTERY MODE OUTPUT (AC)</b>					
Nominal Output Voltage	220/230/240 VAC				
Output Waveform	Pure sine wave				
Efficiency (DC to AC)	93%				
<b>BATTERY &amp; CHARGER</b>					
Nominal DC Voltage	12 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Maximum Solar Charge Current	80 A	80 A	80 A	80 A	120 A
Maximum AC Charge Current	60A				
Maximum Charge Current	140 A	140 A	140 A	140 A	180 A
<b>GENERAL</b>					
<b>INTERFACE</b>					
Parallel Function	N/A	N/A	Yes	Yes	Yes
Communication	USB or RS232/Dry-Contact				
<b>ENVIRONMENT</b>					
Humidity	0 ~ 90% RH (No condensing)				
Operating Temperature	0 to 50°C				

STANDARD: safety: IEC60950-1-1/IEC62040-1-1/ AS 62040-1-1,EMC;IEC62040-2 / AS62040-2/EN50091-2 CLASS,Design and test:IEC62040-3 / AS 62040-3

Note:Product specifications are subject to change without further notice.

Specifications are subject to change without prior notice



Alkatel Solar Co. Ltd.  
www.alkatelsolar.com