

Cellcron Alpha VIII

Operation without battery



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units only for 2KW/3KW/5KW models
- Battery Independent system

On-Grid Inverter with Energy Storage

Hybrid operation

• With battery connected



• Without battery connected



Alpha VIII On-Grid Inverter With Energy Storage Selection Guide

MODEL	Alpha V III 3KW	Alpha V III 5KW
Max. PV Array Power	4000W	5000W
Rated Output Power	3000W	5000W
Maximum PV Array Open Circuit Voltage	450 VDC	450 VDC
MPP T Range @ Operating Voltage	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
MPP Tracker Number	1	1
GRID-TIE OPERATION		
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	13A	21.7A
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	95%	95%
OFF-GRID, HYBRID OPERATION		
GRID INPUT		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC Input Current	40A	40A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	93%	
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
Maximum Solar Charge Current	60 A	80 A
Maximum AC Charge Current	60 A	80 A
Maximum Charge Current	60 A	80 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	120 x 295 x 468	120 x 295 x 468
Net Weight (kgs)	11	12
INTERFACE		
Parallel Function	Yes, 9 units	Yes, 9 units
Communication Ports	USB, RS-232 and dry contact	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-condensing)	
Operating Temperature	-10°C to 50°C	

Product specifications are subject to change without further notice.