



Ηλεκτρονικά Ισχύος
Power Electronics



HYBRACE Inverter

The Inverter HYBRACE is a multiply solution that covers the needs of different types photovoltaic systems. The Inverter HYBRACE has inputs for:

Photovoltaic Panels, Batteries, loads and the main. The operation of hybrid inverter is programmable and gives priority to energy sources.

In case that the energy produced is larger than the requested then it is injected into the grid. HYBRACE Inverters are capable to cover the needs in terms of energy of buildings and installations.

HYBRACE Inverter has the following features:

- 3KW on-grid inverter with energy storage
- Pure sinewave output
- Multiple operations: Grid-tie, Off-grid, and grid-tie with backup
- Built-in MPPT solar charger
- LCD display panel for comprehensive information
- Multiple communication
- Easy configuration and set up from the user

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2
YEAR
Warranty



Othonos 39, Agios Dimitrios
Athens, Greece, ZIP code: 173 43 +30 210 9966555 +30 210 9969444



info@acepower.gr

www.acepower.gr



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Model	HYBRAZ 3KW	
Nominal Power	3000W	
GRID-TIE OPERATION		
PV INPUT (DC)	Maximum DC Power	3200W
	Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
	Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
	MPP Voltage Range	250 VDC ~ 450 VDC
GRID OUTPUT (AC)	Number of MPP Trackers / Maximum Input Current	1 / 1 x 13 A
	Nominal Output Voltage	208/220/230/240 VAC
	Output Voltage Range	184 - 264,5 VAC
	Nominal Output Current	13,1 A
EFFICIENCY	Power Factor	> 0,99
	Maximum Conversion Efficiency (DC/AC)	96%
	European Efficiency@ Vnominal	95%
OFF-GRID OPERATION		
AC INPUT	AC Start-up Voltage/Auto Restart Voltage	120-140 VAC / 180 VAC
	Acceptable Input Voltage Range	170 - 280 VAC
	Maximum Input Current	25 A
PV INPUT (DC)	Maximum DC Voltage	500 VDC
	MPP Voltage Range	250 VDC ~ 450 VDC
	Number of MPP Trackers / Maximum Input Current	1 / 1 x 13 A
OUTPUT (AC) BATTERY MODE	Nominal Output Voltage	208/220/230/240 VAC
	Output waveform	Pure Sinewave
	Efficiency (DC to AC)	93%
HYBRID OPERATION		
PV INPUT (DC)	Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
	Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
	MPP Voltage Range	250 VDC ~ 450 VDC
	Number of MPP Trackers /Maximum Input Current	1 / 1 x 13 A
GRID OUTPUT (AC)	Nominal Output Voltage	208/220/230/240 VAC
	Output Voltage Range	184 -264,5 VAC
	Nominal Output Current	13,1 A
AC INPUT	AC Start-up Voltage/Auto Restart Voltage	120-140 VAC / 180 VAC
	Acceptable Input Voltage Range	170-280 VAC
	Maximum AC Input Current	25A
OUTPUT (AC) BATTERY MODE	Nominal Output Voltage	208/220/230/240 VAC
	Efficiency (DC to AC)	93%
BATTERY & CHARGER	Nominal DC Voltage	48 VDC
	Maximum Charging Current	25 A
GENERAL		
PHYSICAL	Dimension, D x W x H (mm)	170 x 415 x 420
	Net weight (Kgr)	15.5
INTERFACE	Communication	RS-232/USB (Optional SNMP, Modbus, AS-400)
ENVIRONMENT	Humidity	0 ~ 90 % RH (Non condensing)
	Operating temperature	0 to 40° C
	Altitude	0 ~ 1000 m

