

HYBRID INVERTER

5048E

Energy saving and
Backup power solution
with hybrid power
sources from AC grid,
battery and PV system



Key Features

- ▶ Ideal energy saving solution for home/office applications
- ▶ Reliable backup power supported by both PV system and external batteries
- ▶ Batteries can be charged by both PV system and AC input
- ▶ Automatically switches between 9 operation modes to optimize the energy consumption
- ▶ Built-in 20A/35A battery charger with 3 intelligent charge modes
- ▶ Build-in 40A circuit breaker
- ▶ Built-in Maximum Power Point Tracker (MPPT) leads to 30% more PV energy harvest
- ▶ Battery short-circuited and over-charging protection
- ▶ CE complaint



Centralion Industrial Inc.

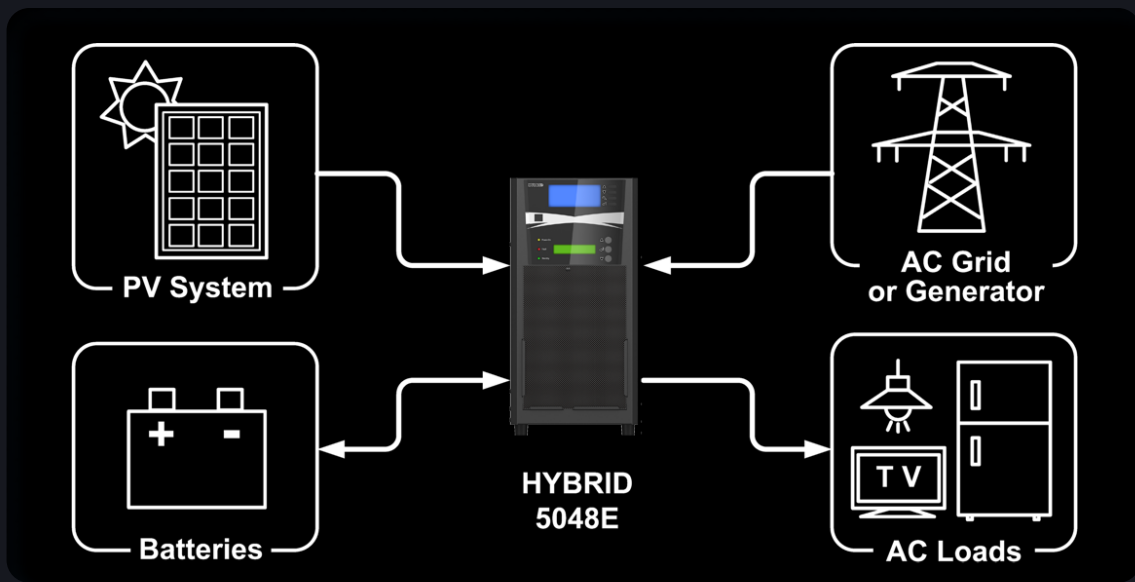
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Typical Application



Product Specification

DC Input (PV System)	
MPP Tracker	1
Max. Input DC Power	4500W
Initial Feed-in Voltage	160V _{DC}
Working Voltage Range	130 ~ 300V _{DC}
Full Rating Voltage Range	185 ~ 300V _{DC}
Max. DC Current	24.3A
Max. DC Short-circuit Current	30.4A
AC Input / Output (Line Mode – AC mains are normal)	
Input Voltage Waveform	Sinewave
Nominal Input Voltage	230V _{AC}
Working Input Voltage Range	170-280V _{AC} (normal range)
	90-280V _{AC} (wide range)
Nominal Input Frequency	50Hz / 60Hz (auto detection)
Output Voltage Waveform	Same as input waveform
Output Short-Circuit Protection	Circuit Breaker 40A
Efficiency (Line Mode)	>95% (Rated R-load, battery full-charged)
Transfer Time	10ms (normal range setting)
(AC/DC & DC/AC)	20ms (wide range setting)
AC Output (Inverter Mode – AC mains are failed)	
Output Voltage Waveform	Sinewave
Nominal Output Power	5000VA / 4200W
Power Factor	0.84
Nominal Output Voltage	230V _{AC}
Output Frequency	50Hz / 60Hz ± 1Hz
Max. Efficiency (DC to AC)	>95%
Nominal DC Input Voltage	48V _{DC}
Battery Charger	
Nominal Output Voltage	48V _{DC}
Nominal Charge Current	20A / 35A (selectable)
Start-up Battery Voltage	>35V _{dc}
General Specification	
Safety Standard	CE (EN 62109-1/62109-2, EN 62040-1/ EN 62040-2)
EMI Classification	IEC 61000-6-4/IEC 61000-6-2
Protection Degree	IP20
Operating Temperature Range	0 - 45 °C
Audible Noise	60dB max
Dimension (WxHxD)	192.4 x 370.2 x 456 mm
Net Weight	17.2 kg