

**6KW BACKUP INVERTER SINGLE PHASE (120V)**

- ✓ QUIET
- ✓ CLEAN
- ✓ AFFORDABLE
- ✓ WORRY-FREE

**PRODUCT OVERVIEW**

The Cenga Power CP-ICP-6KW-120 is the most cost effective alternative solution to traditional propane or natural gas-powered back-up generators. Our CP-ICP-6KW-120 can be used in solar installations or as a battery-powered stand alone backup system and provides backup for essential circuits during power outages. The CP-ICP-6KW-120 is also capable to surge to 3x times its continuous rating allowing for large inductive loads like well motors to be started with ease.

**KEY FEATURES AND BENEFITS****Pure Sine Wave Operation**

The CP-ICP-6KW-120 produces a pure sine wave, clean output which is critical for efficient operation of many devices.

**High Surge Rating**

The CP-ICP-6KW-120 can surge to 3x its continuous output rating (18kW max) for up to 20s providing ample power to start motors and other similar loads.

**Ultra-compact Design**

The ultra-compact design of the CP-ICP-6KW-120 allows it to be installed in nearly any space and in nearly any home, condo, or business.

**Quiet and Worry-Free**

Because CP-ICP-6KW-120 has no critical moving parts, you can count on it to work when you need it most. Also it does not require any noisy weekly testing.

**SPECIFICATIONS**

Inverter Output	Continuous Output Power	6.0KW
	Surge Rating(20ms)	18kW
	Output Waveform	Pure Sine wave/Same as input(Bypass Mode)
	Nominal Efficiency	>88%(Peak)
	Line Mode Efficiency	>95%
	Power Factor	0.9-1.0
	Nominal Output Voltage rms	100-110-120Vac
	Output Voltage Regulation	±10% RMS
	Output Frequency	50Hz ± 0.3Hz/60Hz ± 0.3Hz
	Short Circuit Protection	Yes( 1sec after fault )
	Typical transfer Time	10ms(Max)
	THD	< 10%
DC Input	Nominal Input Voltage	48VDC
	Minimum Start Voltage	40VDC
	Low Battery Alarm	42VDC
	Low Battery Trip	10.0Vdc / 10.5Vdc
	High Voltage Alarm	64VDC
	Low Battery voltage recover	15.5Vdc
	Idle Consumption-Search Mode	< 25 W when Power Saver On
Charger	Output Voltage	Depends on battery type
	Charger Breaker Rating	30A
	Max Charge Power Rate	1/3 Rating Power
	Battery Initial Voltage for Start Up	40-63VDC
Bypass & Protection	Over Charge Protection Shutdown	63VDC
	Input Voltage Waveform	Sine wave (Grid or Generator)
	Nominal Voltage	120Vac
	Max Input AC Voltage	150VAC
	Nominal Input Frequency	50Hz or 60Hz (Auto detect)
	Low Freq Trip	47±0.3Hz for 50Hz, 57±0.3Hz for 60Hz
	High Freq Trip	55±0.3Hz for 50Hz, 65±0.3Hz for 60Hz
	Overload protection(SMPS load)	Circuit breaker
	Output Short circuit protection	Circuit breaker
	Bypass breaker rating	80A
	Transfer switch rating	80A for UL
Bypass without battery connected	Yes	
Solar Charger	Max bypass current	80A
	Rated Voltage	48VDC
	Solar Input Voltage Range	55-100VDC
	Rated Charge Current	40 ~ 60A
	Rated Output Current	15A
	Self Consumption	< 10mA
	Bulk Charge	58V(default)
	Floating Charge	54V(default)
	Equalization Charge	56V(default)
	Over Charge Disconnection	59.2V
	Over Charge Recovery	54.4V
	Over Discharge Disconnection	43.2V(default)
	Over Discharge Reconnection	49.2V
	Temperature Compensation	-13.2mV/°C
Ambient Temperature	0 ~ 40°C(Full load) 40 ~ 60°C(Derating)	
Mechanical Specifications	Mounting	Wall Mount
	Inverter Dimensions(L*W*H)	488*415*200mm
	Inverter Weight (KG)	51.5kg
	Shipping Dimensions(L*W*H)	650*520*310mm
	Shipping Weight (KG)	53.5kg
	Display	Status LEDs+LCD
Standard Warranty	1 Year	