

Sine Wave Inverters

AC PowerCube Highlighted

The AC PowerCube is a professional inverter suitable for continuous operation even under extreme conditions. There are four models: a 4 kVA model, a 7 kVA consisting of two 3.5 kW power modules (built into one enclosure) connected in parallel and providing each other with backup. The 14 kVA model is made up of four 3.5 kW modules which are redundantly switched. The fourth model is a 10 kVA three phase inverter, build into one enclosure. The AC PowerCubes make it possible to switch off the diesel generator for longer periods time and provide the entire onboard installation with power including, for example, air conditioning, kitchen and refrigeration equipment. As a result, there is less fuel consumption, less noise disruption and less running hours for the generator.

Features

- Industrial electronics based on high frequency switched mode technology
- As a result, high efficiency (>92%) and a minimum of powerloss
- No ripple effect from AC to battery, with as a result, a stable DC network.
- No buzz or humming, super quiet

- Fan cooled, resistant to high ambient temperatures
- Double DC connectors 2 x plus, 2 x minus, can be connected to two battery banks
- Perfect for insertion in a complete WhisperPower system

- Great high efficiency = minimal cooling required (cool running)
- Perfect to combine with DC PowerCube and Genverter®
- Significant cost savings from reduced fuel consumption
- Quiet and environmentally friendly
- Simple to integrate in WhisperPower Hybrid energy system

Benefits

- Uncompromised design: purely as inverter
- Direct power supply, no interruptions, battery as buffer

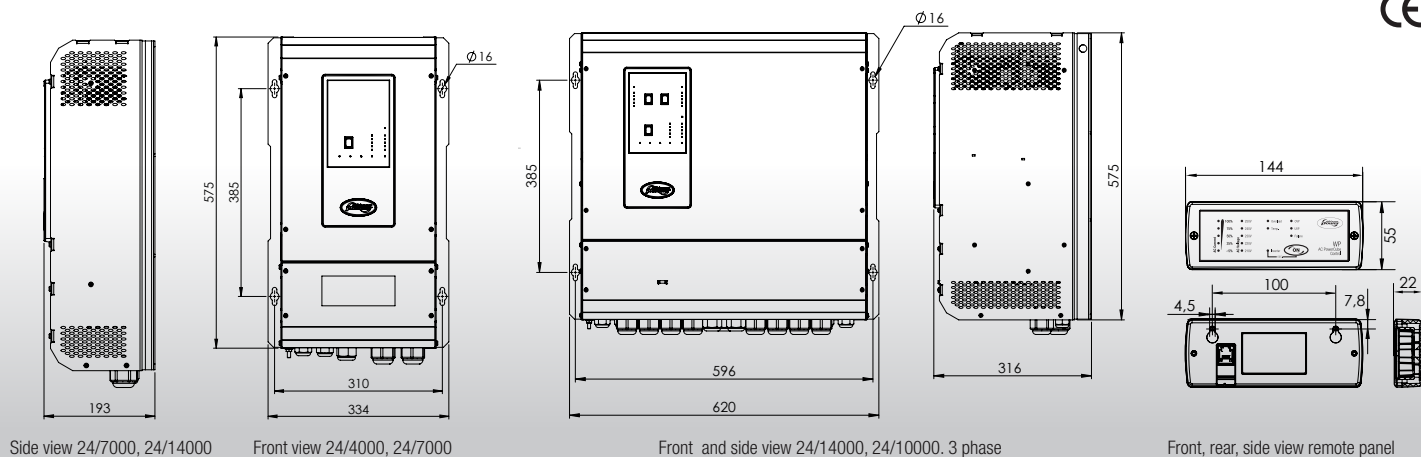


Connection compartment of the AC PowerCube 7 kVA. On the right, double battery connector with 2 x DC PLUS and 2 x DC MINUS connections - one or two separate battery banks can be connected. On the left, the 230 V / 50 Hz output and the connection for the remote control panel and the various set up ports.



	AC POWERCUBE 24/4000	AC POWERCUBE 24/7000	AC POWERCUBE 24/14000	AC POWERCUBE 24/10000
Article Nr.	60203003	60203004	60203005	60203010
GENERAL				
Nominal output voltage	230 V (± 5%), Phase, Neutral, Earth *)	230 V (± 5%), Phase, Neutral, Earth *)	230 V (± 5%), Phase, Neutral, Earth *)	3 x 380 V (± 2%), Phase, Neutral, Earth *)
Nominal output frequency (adjustable to 60 Hz)	50 Hz (± 0,01Hz)	50 Hz (± 0,01Hz)	50 Hz (± 0,01Hz)	50 Hz (± 0,05%)
Nominal battery voltage	24 VDC	24 VDC	24 VDC	24 VDC
Nominal power P30 (cos phi = 1) (30 min at 40°C)	4000 W	7500 W	14000 W	10000 W
Peak power (20 s)	7000 W	15000 W	28000 W	30000 W
Continuous power (cos phi = 1) (40°C)	3000 W	6000 W	12000 W	9000 W
AC connection (output)	Internal terminal block, screw terminal (4 .. 6mm2)			
DC connection	2 x M10	4 x M10	4 x M10 (2 per battery bank)	2 x M10
Minimum capacity of battery bank	260 Ah	600 Ah	800 Ah	800 Ah
Efficiency	> 85%	> 85%	> 85%	> 90%
Peak efficiency	> 92%	> 92%	> 92%	> 92%
Dimensions (wxdxh - mm)	334 x 193 x 575	334 x 316 x 575	620 x 316 x 575	664 x 316 x 575
Weight	13kg	18kg	40kg	60kg
Noise level (at 1m)	< 48dBA	< 48dBA	< 48dBA	< 48dBA
Operation	Power switch (on / off / remote), the DC inputs (on / off), Remote panel switch (On / Off) *			
Indicators	AC present, DC 1 present, DC (1) load, DC 2 present, DC (2) load, AC current, AC voltage			
Safety	Short circuit, overload, overheating, battery voltage too low / high			
TECHNICAL SPECIFICATIONS				
Technology	Six-step multiphase flyback, Switched mode technology			Toroidal transformer
Low battery switch off	20 V (± 0.5 V)	19 V (± 0.5 V)	19 V (± 0.5 V)	19 V (± 0.5 V)
Low battery switch on	22 V (± 0.5 V)	22 V (± 0.5 V)	22 V (± 0.5 V)	22 V (± 0.5 V)
High battery switch off	32 V (± 0.5 V)	32 V (± 0.5 V)	32 V (± 0.5 V)	32 V (± 0.5 V)
High battery switch on	30 V (± 0.5 V)	30 V (± 0.5 V)	30 V (± 0.5 V)	30 V (± 0.5 V)
Maximum ripple on DC (battery)	5% RMS	5% RMS	5% RMS	< 5% RMS
Input current (nominal load)	200 A	2 x 200 A	4 x 200 A	800 A
Consumption (no load)	< 300 mA, 6W	< 550 mA, 12 W	< 2 x 550 mA, 24W	1.6W, standby
Total harmonic distortion (THD)	< 5% (normal)	< 5% (normal)	< 5% (normal)	< 2% (normal)
Allowable power factor	0 < cos phi < 1	0 < cos phi < 1	0 < cos phi < 1	0 < cos phi < 1
CONDITIONS				
Ambient operating temperature	-20°C .. 40°C	-20°C .. 40°C	-20°C .. 40°C	-20°C .. 40°C
Storage temperature	-25°C .. 80°C (derating above 40 °C)	-25°C .. 80°C (derating above 40 °C)	-25°C .. 80°C (derating above 40 °C)	-25°C .. 80°C (derating above 40 °C)
Relative humidity	Max 95%, non-condensing	Max 95%, non-condensing	Max 95%, non-condensing	Max 95%, non-condensing
International Protection rating	IP23	IP23	IP23	IP23
Cooling	Natural / forced			
CONFORMITY				
EU Directive	EMC Directive 2004/108 / EC, EMC 2004/104 / EC (automotive), Low Voltage Directive 2006/95 / EC			
Standards	EN 55022 (emission) EN 61000-3-2 (harmonic distortion), EN 61000-4-11, EN 61000-3-3 (voltage variations), EN 61000-6-2 (immunity) and EN 60950-1 (safety) AND 68-2-6 (vibration), EN 60945 (navigation and radio communications), UL 458			

*) Ask for our 120 V / 60 Hz models



Side view 24/7000, 24/14000

Front view 24/4000, 24/7000

Front and side view 24/14000, 24/10000. 3 phase

Front, rear, side view remote panel