



Powervamp's 90 kVA converter delivering top-quality stabilised power to the flightdeck of a Boeing 747-8  
Photo © Powervamp 2011

90 kVA showing MABS ethernet connection (see page 26)

## SPECIFICATION

### INPUT

Mains supply voltage	400V AC +/- 10% 3-phases
Mains supply frequency	50 or 60Hz +/- 5%
Power factor	0.99pF @ full load
Input protection	MCB to BS EN60898
Fusegear	gR to IEC 60269-1 and -4, DIN VDE 0636-23 DC Over-voltage
Protections	Mains low Input surge
Technology	Full wave controlled thyristor/diode bridge with IGBT power factor correction

### OUTPUT

Voltage	115/200V AC 3-ph
Voltage regulation	Static +/- 1%, Dynamic +/- 6%
Voltage waveform	Sinusoidal
Frequency	400Hz +/- 0.1%
Distortion (THD)	<3% into linear load
Load power factor	0.3 lag to 0.3 lead
Crest factor	3:1
Overload (kVA)	120% continuous, 121% for 2 min, 160% for 5 sec Electronic overload/short circuit Over-temperature
Protections	Inverter over/under voltage Low voltage shutdown
Technology	High frequency, pulse width modulated IGBT with isolation transformer

### Dimensions (basic unit)

	Height	Length	Width	Weight
PVC20	1000mm (39in)	800mm (32in)	550mm (22in)	350kg (772lbs)
PVC40	1000mm (39in)	800mm (32in)	550mm (22in)	450kg (992lbs)
PVC60	1400mm (55in)	1100mm (43in)	800mm (32in)	600kg (1,322lbs)
PVC90	1400mm (55in)	1100mm (43in)	800mm (32in)	700kg (1,543lbs)

## FEATURES

- 115/200V 400Hz aircraft GPU
- Large range of 400Hz power: from 20kVA up to 90kVA
- Optional 28V DC external module available – up to 600A continuous and 2000A peak for more versatility
- Worldwide input voltage 200–480V
- High quality sine wave output and reliability
- Galvanic isolation with grounded neutral
- Both civil and military aircraft interlocks
- High-quality steel/aluminium enclosure to handle all-weather conditions
- Cable entry at the rear with removable gland plates to allow simple installation
- Castors for easy positioning
- Protection against DC over-voltage, input mains low and main surges
- Removable panel and hinge for easy access and service
- Full datasheet and instructions available upon request

## OPTIONS:

- Heavy-duty 4-wheel ramp trolley with cable stowage and tow hitch



40 kVA fixed hangar power