

# Power supplies

27–31.7 volt lightweight power supplies/chargers

**POWervamp™**

## **NEW** PS30 M

**Lightweight multi-function power supply / charger**

Powervamp's latest miniature power supply, the PS30 M, is a lightweight multi-function charger/micro power supply delivering up to 30 amps DC at preset voltages between 27.4 and 31.5 volts according to mode. It connects directly to the aircraft's external power plug.

The PS30 M is designed for operators of smaller helicopters and VLJs where the need to download data or programme avionics in any location demands reliable and smooth DC power, in a unit where size, weight and stowage considerations are important. The tough and versatile PS30 M is perfect for maintenance shops and specialist avionics departments, or as an engineer's portable DC power source for fault finding, training or the powering of DC equipment at shows.

The selectable 120/240 volt 50/60Hz input allows worldwide use. An accurate solid state volt meter displays the output voltage as selected by the mode knob. Coloured LEDs confirm mode selection. Power output status is shown by a red and green LED indicating current within output limits or current limit protection/overload.

Unique to the PS30 M are its three preset modes. These allow it to be used to rapidly re-charge any type of Powervamp GPU, conventional 24 volt lead acid battery or to operate as a continuous 28.5 volt DC power supply. When set in mode 3, it becomes a powerful charger for Powervamp's 28.5V CoolSpool 17, 29 and 58 GPUs.

The unit is force ventilated with thermal protection and current overload/short circuit and reverse polarity protection.

A quick release polarised 50 amp continuously rated connector allows instant connect/disconnect of the 2-metre special double insulated 16mm section output cable fitted with Lexan Nato plug.

The PS30 M design allows units to be ganged in parallel to a second power supply to double output or to operate in parallel with any Coolspool 17, 29 or 58 GPU as a continuous power source or charger.



PS30M



PS120 M in 27.4V charge mode

## **NEW** PS120 M

**Up to 120 amps continuous power**

This latest power supply from Powervamp provides operators with up to 120 amps of continuous power from any 110/220 volt single phase AC mains supply.

It is the same size and weight as Powervamp's well proven PS80 power supply, but through a new generation of miniaturised PCB produces an astonishing 50% more continuous power.

It has 3 preset modes: lead acid battery charging (27.5V); continuous avionics operation (28.5V); and 31.5V for Coolspool 17, 29 or 58 charging.

The PS120 M will deliver smooth, stabilised continuous DC power. When in mode 2, it is designed to run the avionics of medium/large business jets and helicopters, download information to the aircraft FMS or IFIS, or be used in maintenance or avionics shops for fault finding. Whether it's simply running cabin lighting, charging the onboard batteries or being used as an emergency source of portable power, run from a mains extension cord or portable generator, the PS120 M is an outstanding piece of support equipment. Small and light enough to be hand carried anywhere, it can be used by operators worldwide, with its derivative (model PS80C) recommended and supplied exclusively by the largest US airframe manufacturer.

Individual LEDs confirm DC output status and a digital ammeter and voltmeter accurately display output volts and amps so operators can note and memorise the current draw of avionics, pre-flight loads, invertors, cabin lighting and other systems.

The modular design of the unit maximises damage tolerance.

Any PS120 M or derivative can be paralleled to double or triple output power or operate paralleled with any Powervamp portable GPU. This design concept allows individual units to be easily handled, stowed and transported.

Each power supply is fitted with padded protective jacket and a 2-metre (6ft) 50mm double insulated output cable fitted with heavy-duty rubber Nato plug.

## PS30 M

**Designed for the smaller helicopter, VLJ or use with CoolSpool 17, 29, and 58 GPUs or as a DC power source**

### Specification

Max output	30 amps
Output volts	27.4, 28.5, 31.7 (selectable)
Input volts	Selectable. 120/240 single ph. 50/60Hz
Max input current	120V 9amps; 240V 4.4 amps
Input frequency range	45-400Hz
Efficiency	82%
Cooling	Single fan, forced air
IP Rating	IP54

Height	Length	Width	Weight
105mm/4.1in	320mm/12.5in	75mm/2.95in	2kgs/4.4lbs

### Standard features

- Mains input voltage selector
- Digital voltmeter.
- Mains on/off switch.
- Current limit LED
- Power output status LED
- Padded protective jacket.
- 2-metre (6ft) detachable output cable with fitted Lexan Nato plug

### Options

- Optional shoulder bag for output cable and power supply

## PS100 AU (Automatic Universal)

**For business jet operations worldwide. Carry-on-board unit. Supplied with set of quick-connect world mains adaptors in special stowage bag**

### Specification

Max output	100amps
Output volts	pre-set 28.5 volts
Input volts	Automatic selection. 100-264 single Ph. 50/60Hz
Max input current	120V 30 amps; 240V 15 amps
Input frequency range	45-400 Hz
Efficiency	82%
Input voltage selection	fully automatic
Cooling	triple fan, forced air
IP rating	IP65 (with protective cover)
Case	powder-coated alloy with neoprene anti-slip feet

Height	Length	Width	Weight
300mm/15in	400mm/15.7in	135mm/5.31in	13.2kgs/29.7lbs

### Standard features

- Fully automatic input voltage selector
- Digital voltmeter
- Digital ammeter
- Mains on/off circuit breaker
- 4 x paralleled 25 amp PCBs
- 4 x PCB output status LEDs
- Fuse protected 28v accessory socket
- Padded protective jacket
- 2-metre (6ft) detachable heavy-duty output cable with heavy-duty rubber Nato plug
- Full set of international mains connectors in special compartmented bag



## PS120 M

**Designed to power large helicopters, full-size corporate jets and for ramp/hangar use**

### Specification

Max output	120 amps
Output volts	27.4, 28.5, 31.7 (selectable)
Input volts	Selectable. 120/240 single Ph. 50/60 Hz
Max input current	120V 36 amps; 240V 18 amps
Input frequency range	45-400Hz
Efficiency	82%
Cooling	triple fan, forced air
IP Rating	IP65 with protective cover
Case	powder-coated alloy with neoprene anti-slip feet

Height	Length	Width	Weight
300mm/15in	400mm/15.7in	135mm/5.31in	12.5kgs/28lbs

### Standard features

- Mains input voltage selector
- Digital voltmeter
- Digital ammeter
- Mains on/off circuit breaker
- 4 x paralleled 30amp micro-powersupply PCBs
- 4 x PCB output status LEDs
- Fuse protected 28v accessory socket
- Padded protective jacket
- 2-metre (6ft) detachable heavy-duty output cable with heavy-duty rubber Nato plug



*PS30 M shown without protective jacket for clarity*

*PS80 in Coolspool charge mode*



# POWERVAMP™

### Distributor & Repair Station

www.gelbyson.com - E-mail: info@gelbyson.com  
 Tel. (+39) 06.363.04.761 - (+39) 06.363.04.941  
 Fax (+39) 06.32.97.337

### Powervamp Ltd

22 Bridgwater Court, Oldmixon Crescent, Weston-Super-Mare BS24 9AY, England  
 Tel: +44 (0) 1934 643000 Fax: +44 (0) 1934 642800  
 Email: info@powervamp.com www.powervamp.com

