



Switched Mode Power Supply



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Type: **12VDC-30A-500W-ESP115**

DRAFT

HP/Compaq: 216068-001 or 2

Rear Panel View & Basic Connection Details

General Data

Brand: COMPAQ HP (ML370 G2/G3 Lite-On)
HP Part #: 216068-001 or 2
Spares #: 230993-001
Model: ESP115 Series
OEM: PS-5551-2 Lite-On

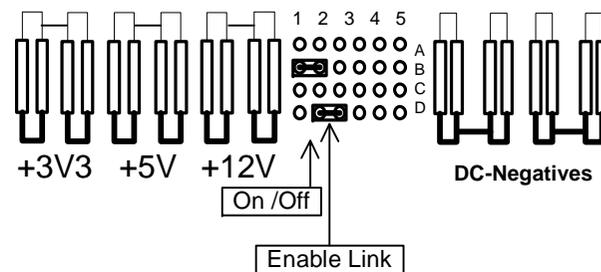
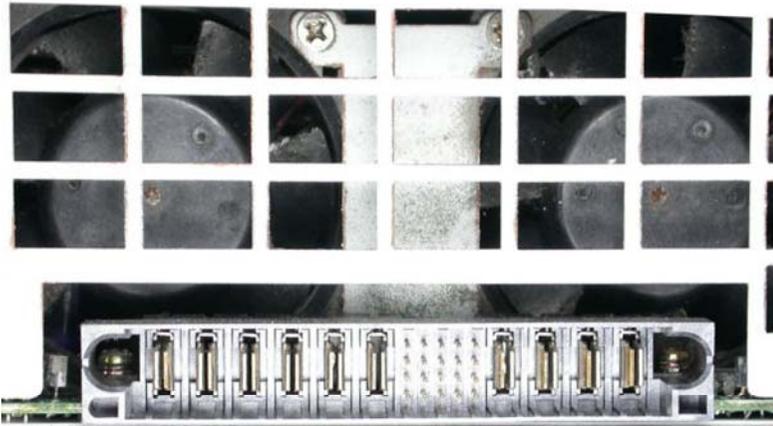
Input Voltage: 220~240V
Input Current: Up to 4A
Output Voltage: 12.0V (internally adjustable 11.55-13.25V)
Output Current: up to 30A
Remote Sensing: Yes
Minimum Load Current: Depends on voltage setting.
Over current protection: Yes (110% - 150%?)
Management Voltage: 5V Aux Output
Management Current: up to 5A
Output Voltage: 5Vdc (secondary output)
Output Current: Up to 34A
Over current protection: Yes (101% - 125%?)
Total Output power: 500W
Operating temperature: +5°C ~ +50°C.
Operating frequency: 50/60Hz
Conversion efficiency: Typically 85% (load dependant)
Power Factor: 0.90 typical. APFC
Power indicator: Yes
Over temperature protection: Yes
Wiring: Molex SSI (original I/O connector)

Size: 300 x 202 x 80 mm (nominal LxWxH)
Fixing: Intended to sleeve mount
Weight: ~3.57kg

Package & Options include:

1 x 12V 30A 500W DC power supply with control headers or jumpers and/or SB/Run lead for remote start/stop.
 Optional: flexible 50~100A output cable and original in/out connectors + casing negotiable (if/while stock exist).

WARNING - output negatives are earthed



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General Installation & Operation

Overview:

This DC Power Supply is a very high quality self-contained unit deemed usable in applications where 12V DC is required at continuous currents up to 30 Amps with good regulation and compact size... ..typical applications may include:

LiPo battery charging, FM, SSB and TV transmitters, CNC machines-motor drive, original computer server systems etc..

Operation: Deploy, adequately sized cable etc., connection to the mains supply and the DC output, and add control-pin jumpers or switches to render the supply operational.

The supply requires that the **ON/OFF (2B)** be connected to the **GND (1B)** return to bring the supply into standby and **ENABLE (2D)** also connected to **GND (3D)** to enable the 12V supply. An optional SPST switch in the GND – ENABLE line can allow the 12V supply to be shut down without disabling the 5 Volt Aux supply. The supply may “self recover” after over an current event.

Mounting: These units were originally deployed in 19" rack-mounted hot-swap sleeves (as part of a major computer server infrastructure) and only require adequate ventilation at the ends to facilitate un-interrupted air-flow of the internal axial fan.

Note - Free-standing or custom fixing is at the discretion of the user.

Adjustments: There are **no external adjustments**, however, for the technically competent, some internal adjustments may be made to suit special application including raising the output to 13.25V. There are various WWW resources offering ‘advice’ along these lines.

Connection: In the absense of original sleeve and/or the proprietary mating connectors, some imagination using industry-standard practices can be applied to achieve practical connection to the mains and high-current load.

Note - There are various WWW resources offering ‘advice’ on using the included rear Hot-Swap connections.

Control: See a typical connection and control schematic/diagram on the left:

Caution: This supply is capable of outputting destructive power levels! Suitably rated protective fusing or circuit breaker should be provided on the 12 and 5 Volt rails to avoid the risk of fire and/or destruction of your connected equipment under fault conditions.