



# Switched Mode Power Supply



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

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**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

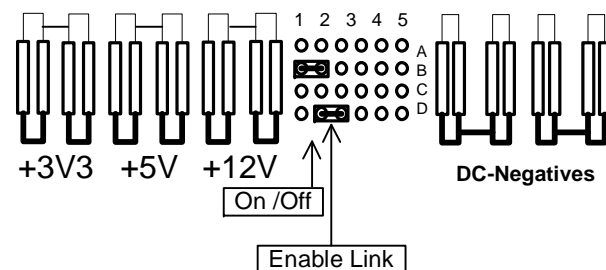
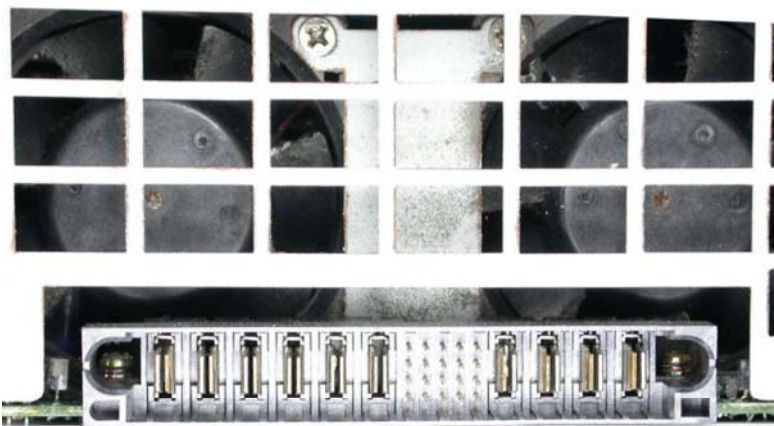
**Weight:** ~3.57kg

## 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.