

Switched Mode Power Supply

Type: **12VDC-55A-800W-ESP114**

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DRAFT

HP/Compaq: 192147-001

Rear Panel View & Basic Connection Details



General Data

Brand: COMPAQ HP (DL580G2 Astec)
HP Part #: 192147-001
Spares #: 192201-001
Model: ESP114 Series
OEM: AA22300 ASTEC

Input Voltage: 200~240V
Input Current: Up to xxA (TBA)
Output Voltage: 12.0V (internally adjustable -2/+12%)
Output Current: up to 55A
Remote Sensing: TBA
Minimum Load Current: 10% (nominal)
Over current protection: Yes (110% - 150%?)
Management Voltage: 5V Standby Output
Management Current: up to 5A
3.3Vdc Output (secondary output): up to 45A
5Vdc Output: up to 30A

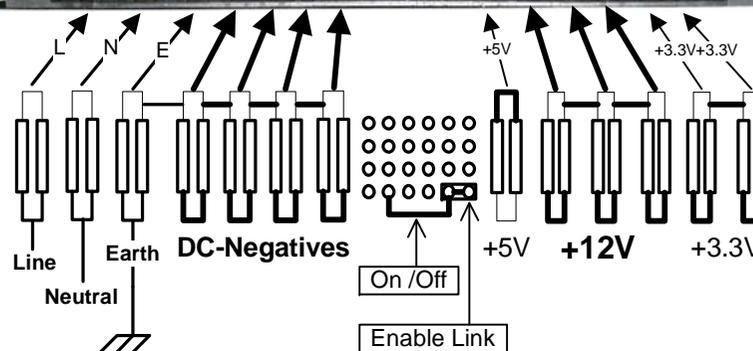
Over current protection: Yes (101% - 125%?)
Output power: 800W
Operating temperature: +5°C ~ +40°C.
Operating frequency: 50/60Hz
Conversion efficiency: Typically 85% (load dependant)
Power Factor: 0.90 typical. APFC
Power indicator: Yes
Over temperature protection: Yes
Wiring: FCI 51792-001 (original I/O connector)

Size: 265 x 130 x 125 mm (nominal LxWxH)
Fixing: Intended to sleeve mount
Weight: ~4kg

Package & Options include:

1 x 12V 55A 800W DC power supply with control header 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 55 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. Two front panel LED signal lamps indicate the operational state of the unit. Various external signal pins etc. (yet to be identified) may be available from the rear connections.

The supply requires that the **ON/OFF (23)** be connected to the **GND (20)** return to bring the supply into standby and **ENABLE (24)** also connected to **GND (20)** 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 SB supply.

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 13.4V. There are various WWW resources offering 'advice' along these lines.

Connection: In the absence 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 main connections 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.