

Emphatec DC Plus®

Power Supply



The Emphatec DC Plus® 30W Power Supply was designed specifically to reduce the amount of panel space required to install an AC/DC power supply. At just 22.5mm wide it is ideal for retrofits and for applications where a small control cabinet is used.

The input is 120/230Vac and the output is rated 24Vdc @ 1.25A. The high efficiency regulation circuit minimizes power dissipation and allows for the compact package. The output is adjustable from 23.5 - 28.5Vdc. All connections are via plug and socket connectors. Approvals include cULus Listed to UL508A and CSA 22.2 No.14, cFus recognized to UL1310 and CSA 22.2 No. 223, and the CE mark.

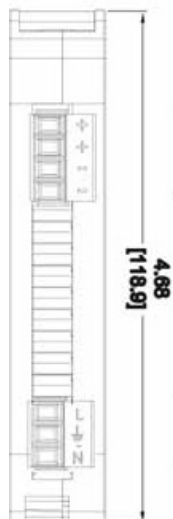
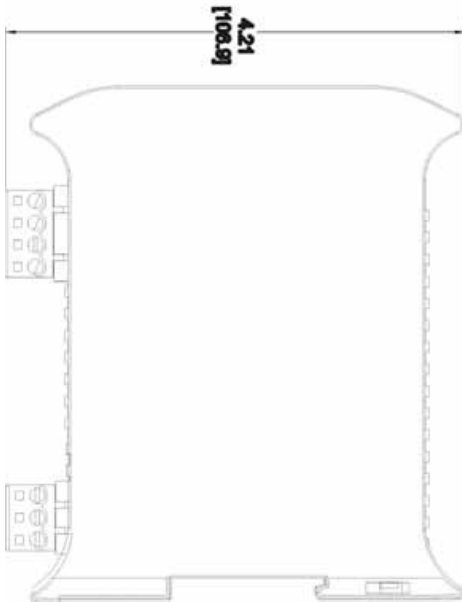
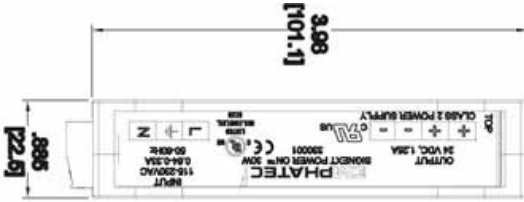
Features

- Universal Input
- Designed for 24Vdc applications
- 24Vdc @ 1.25A output
- 22.5mm wide
- Plug and Socket Connectors

Ordering Data

Type	Order Number
Emphatec DC Plus® Power Supply	330001

Technical Data



Emphatec DC Plus® 30w Power Supply

Order Number 330001

Input voltage

Minimum: 85Vac
 Typical: 115Vac - 230Vac±10%, 50-60Hz
 Maximum: 265Vac

Input current (avg.)

@115Vac 530mA RMS
 @230Vac 310mA RMS
 @125Vdc 300mA DC
 @250Vdc 150mA DC

Inrush current: 37.5Apk max. (1 cycle)

Input protection: 2A slow blow fuse (internal)

Overvoltage (transient) protection: MOV

Output voltage: 24Vdc (adjustable from 23.5 to 28.5Vdc)
 Output Current max.: 1.25A @ 24Vdc, 1.07A @28Vdc
 Short-circuit current: 6.8A peak for 40ms before power supply switches off

Switching frequency: 100KHz PWM

Efficiency @ max. load: 80%

Maximum output ripple: 0.1% of Vout (0.024Vrms @ 24Vdc)

Regulation load(10-100%): 0.3%
 Line: 0.3%

Overload protection: Overcurrent shutdown with auto restart

Max. load capacitance: 10,000µF

Hold time

@115Vac 10ms
 @ 230Vac 55ms

Temperature

Storage: -40°C to +85°C
 Operating: -40°C to +45°C @ 1.25A, de-rates linearly to 1A @ 55°C

Humidity

Storage: 20-95% RH non-condensing
 Operating: 20-85% RH non-condensing

Galvanic isolation

Input to output: 3000V
 Input / output to rail: 4000V
 Input to ground: 1500V
 Output to ground: 500V

Terminations pitch: 5.08mm
 Wire size: 22-12 AWG (0.5-2.5mm²)
 Torque: 0.4-0.5Nm

Approvals:

cULus listed (UL508, CSA C22.2 No. 14-95), E252394
 cULus listed (UL60950-1:2003, CSA C22.2 No.60950-1-03), E251523

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Subject to technical changes

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