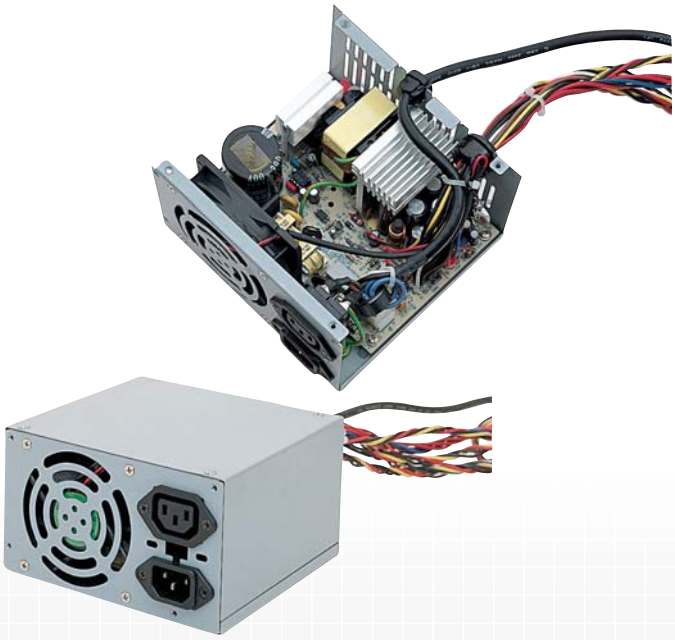
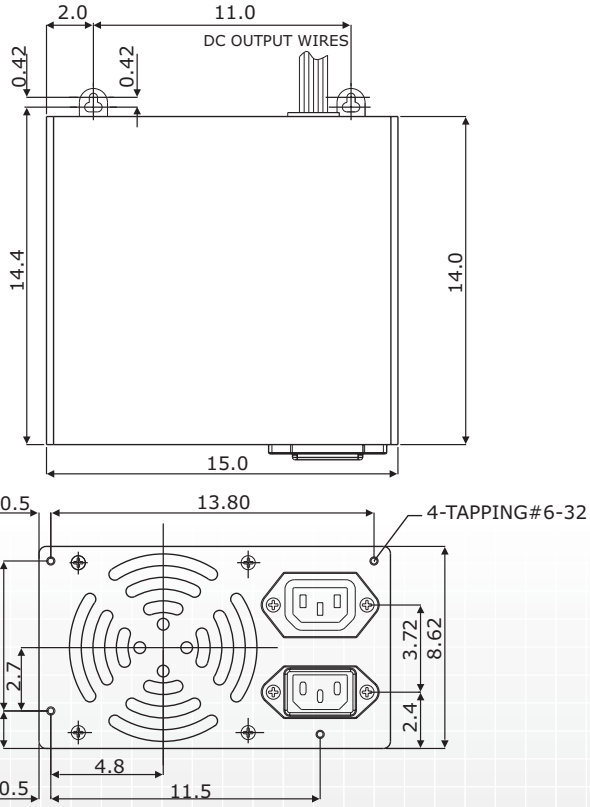
# MPE-825A

280W AC-DC ATX Power Supply








## Features

*__Input Voltage:__ 90~130VAC or 180~260VAC, auto switchable
*__Input Frequency:__ 47~63Hz
*__Inrush Current:__ Does not exceed 40A at 115VAC input or 80A at 230VAC input, at cold start 25°C
*__Ripple And Noise:__ Peak to peak ripple and noise for each output is < 1% of each output voltage at rated load 115~230VAC
*__Line Regulation:__ < +/-1% at rated load with +/-10% change in input voltage
*__Load Regulation:__ The output voltage load regulation is less than the values on the table when each output loading changes +/-40% from 60% rated load while all other outputs at 60% rated load
*__Hold Up Time:__ > 20ms at 115VAC input and rated load measured from the end of the last charging pulse to when the main output drops down to 95% output voltage
*__Power Good Signal:__ Goes high 100~500ms after all DC output are ready
*__Power Failure:__ Goes low 0.5ms before any DC output falls
*__Power On:__ TTL compatible signal (active low) used to switch ON the main output. When power on is disconnected from secondary common, all outputs except +5Vsb are turned off
*__Efficiency:__ > 65% at nominal line and rated load
*__Altitude:__ 10,000 feet
*__Protection:__
Short Circuit: Hiccup mode function against short circuit or over load conditions auto restarts when fault conditions are removed
Output: Built-in crowbar circuit automatically shuts down outputs to avoid damaging external circuits. Trip point of O.V.P. circuit is between 5.7~7.0V
*__Temperature:__ 0~70°C (operating); -40~+75°C (storage)
*__Humidity:__ 5~95%; non-condensing at 40°C (operating)
*__Connectors:__
AC Input/Output: Meets IEC 320/CEE 22 standard
ATX Connector: Alex 9358-20 or equivalent device
3.5" Disk Drive: AMP 1-480424-0/171822-4 or equivalent device
*__Dimensions:__ 14.0 x 15.0 x 8.62 cm with +/-0.8mm and +/-0.4mm tolerance between mounting holes
*__MTBF:__ 119,695 hrs.

## Safety Standards

*__Safety:__ UL 1950 / CSA 22.2 No.234 / VDE EN60950
*__EMI:__ FCC class B / EN55022B
*__EMS:__ Level 3 of IEC-801, 802, 803, 804

| PIN | Output |
|---|---|
| Red | +5V |
| Yellow | GND |
| Brown | +12V |
| Grey | -12V |
| Black | +5V |
| White | GND |
| Orange | +12V |
| Purple | -12V |
| Green | PWR On |

| Output Voltage | Min. Load | Rated Load | Max. Load | Tolerance |
|---|---|---|---|---|
| +5V | 0A | 25A | 30A | +/-0.2V |
| +12V | 0.1A | 10A | 15A | +/-0.24V |
| -12V | 0A | 0.5A | 1A | +/-0.6V |
| -5V | 0A | 0.5A | 1A | +/-0.25V |
| +3.3V | 0A | 8A | 15A | +/-0.17V |
| +5Vsb | 0A | 0.72A | 1.5A | +/-0.25V |