

480 Watt, AQFV480F Series, Enclosed Power Supply



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- Universal AC Input
- Fully Enclosed with option of U-Channel chassis or enclosed case with top fan
- High Efficiency Up To 92%
- Short Circuit, Over Voltage, Over Load and Over Temperature Protected
- 3 Year Warranty
- Full Approvals: UL/CE
- Ultra Compact Case Size
- Remote on/off, Remote Sense
- DC OK Signal, 5 Volt Stand-By Output
- Variable Speed Temperature Controlled Fan



Specification

Input Voltage.....	90~264 VAC, 47~63 Hz (120-370 VDC)
Inrush Current.....	<50 A @ 115 VAC, <70 A @ 230 VAC
Output Voltage.....	Single Outputs, See table below
Load Regulation.....	+/-1%, (5 to 100% load)
Line Regulation.....	+/-0.5%, (Full AC range)
Over Voltage Protection.....	Auto Recovery
Short Circuit Protection.....	Auto Recovery
Overload Protection.....	Auto Recovery
Over Temperature Protection.....	Auto Recovery
Hold Up Time.....	10 ms, minimum
Ripple & Noise.....	100mV (12 Volts), 200mV (24 & 36 Volts), 300mV (48 Volts)
Input to Output Isolation.....	I/P-O/P: 3 kVAC,
Operating Temperature	-20 to +70 °C, see derating curve
Storage Temperature.....	-25 to +85 °C
Switching Frequency.....	62.5 kHz (±10%)
Safety Standards.....	UL60950-1, CE (surge 4KV)
EMC.....	EN55022 class B, EN55024
Mechanical	202.8 x 106.5 x 45mm (total length including cooling fan) Top fan version also available : 177.8 x 106.5 x 59 (inc fan)
Connections Input & Output.....	Screw terminals for Input and Output (Optional Molex style plug in)
Fixing positions.....	7 on base plus 2 on each long side, all M3 Threads

Models and Ratings

Model	Output Voltage	Output Current	Efficiency
AQFV480F-12S-AP	12.0 V	40 A	88 %
AQFV480F-24S-AP	24.0 V	20 A	90 %
AQFV480F-36S-AP	36.0 V	13.3 A	92 %
AQFV480F-48S-AP	48.0 V	10 A	91 %

*NOTES (1) Efficiency is shown at nominal 230VAC Input
 (2) All models require 5% minimum load to ensure operation within full specification.
 Units will operate with no load without problem.

Please see next page for mechanical drawings, connections and temperature derating.

**ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,
 Rochester, Kent, ME2 4HU, Tel : 01634 725527, Fax : 01634 739111
 Email : sales@allpsu.co.uk, Web : www.allpsu.co.uk**

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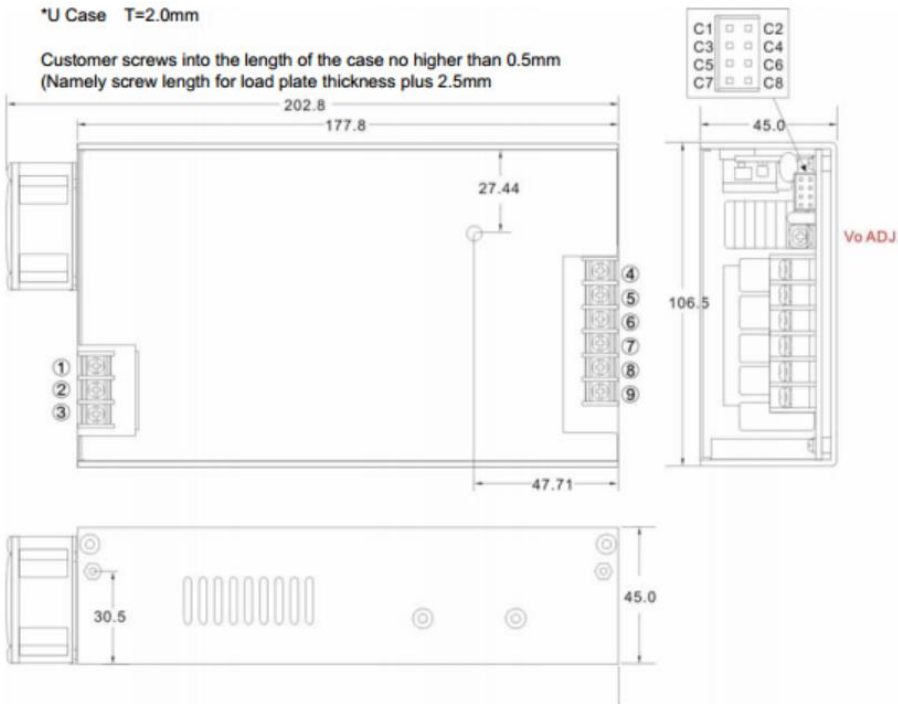


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Mechanical Drawings.

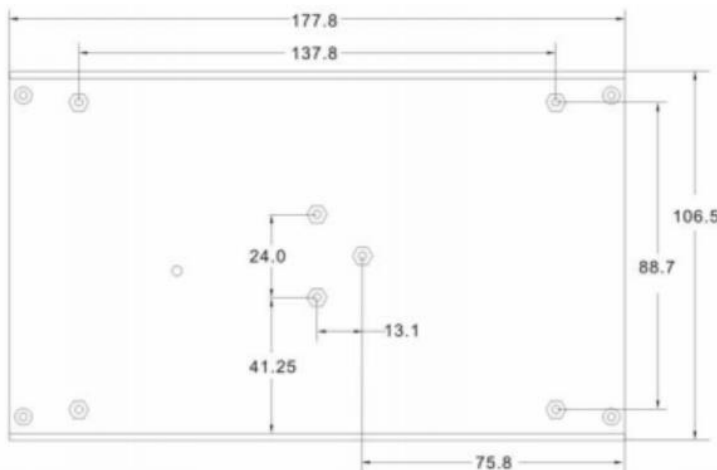
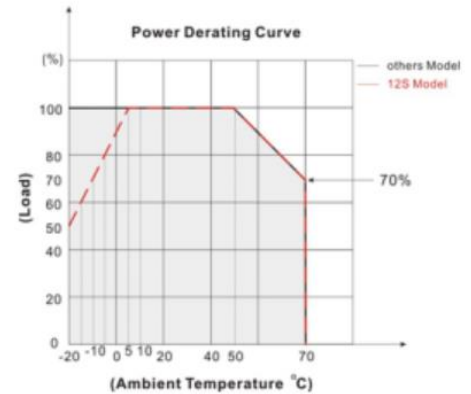
Standard Type – Screw Terminal Connections

Please contact ALL PSU for Plug-In connection options



Standard Type Connections - Screw Terminals	
Terminal	Function
1	AC IN (N)
2	AC IN (L)
3	Input Earth
4 to 6	+DC Out
7 to 9	-DC Out

DERATING



PIN	FUNCTION	DESCRIPTION
C1	+S	Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
C2	-S	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
C3	+RC	Turns the output on and off by electrical or dry contact between pin C4 (-RC), Short = Power OFF, Open = Power ON
C4	-RC	Remote control ground / return
C5	DC-OK	DC-OK Signal is a DC output, referenced to pin C6 (DC-OK GND)
C6	GND	This pin internally connects to the negative terminals (-DC Out). Return for DC-OK signal output
C7	+5V SB	Stand-by voltage output ground 4.5~5.5V, referenced to pin C8 (-5V SB). The maximum load current is 0.6A
C8	-5V SB	Stand-by voltage output ground / return

Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.

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