



700 Watt, AQF700 Series, Enclosed Power Supply

- Universal AC Input
- Current Share Parallel Function Option
- High Efficiency Up To 92%
- Short Circuit, Over Voltage, Over Load Over Temperature Protected
- 3 Year Warranty
- Full Approvals: UL/CE
- Ultra Compact Case Size
- Remote On/Off Function
- DC OK Signal, 5 Volt Stand-By Output



Specification

Input Voltage.....	90~264 VAC, 47~63 Hz (120-370 VDC)
Inrush Current.....	<55 A @ 115 VAC, <90 A @ 230 VAC
Output Voltage.....	Single Outputs, See table below (min 5% trim)
Load Regulation.....	+/-1%
Line Regulation.....	+/-0.5%
Parallel Operation.....	Up to 2 units (90% total power)
Over Voltage Protection.....	Auto Recovery
Short Circuit Protection.....	Latch-Off
Overload Protection.....	Auto Recovery
Over Temperature Protection.....	Auto Recovery
Hold Up Time.....	5 ms, minimum
Ripple & Noise.....	< 1% of nominal Output Voltage typ
Input to Output Isolation.....	I/P-O/P: 4 kVAC,
Operating Temperature	-30 to +70 °C, see derating curve
Storage Temperature.....	-35 to +85 °C
Safety Standards.....	UL / IEC / EN 62368
EMC.....	EN55032 / EN55011 (conducted class B, Radiated Class A) EN55024 / EN60601-1-2 4th edition
Mechanical	170.2 x 93.0 x 41.0 mm
Connections Input & Output.....	Screw Terminals for AC Input & DC Output Connections

Models and Ratings

Model	DC Output Voltage	Maximum Output Current	Efficiency
AQF700-12S-AP	12.0 V	52.08 A	89 %
AQF700-15S-AP	15.0 V	41.66 A	90 %
AQF700-24S-AP	24.0 V	29.16 A	91 %
AQF700-28S-AP	28.0 V	25 A	92 %
AQF700-48S-AP	48.0 V	14.58 A	92 %

Notes

1. Output power derates with AC Input below 115 Volts to 75% at 90 VAC Input.
2. Add 'C' to any part number to include the Current Share Option for Parallel connection / operation i.e. AQF700C-12S-AP

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

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Mechanical Drawings.

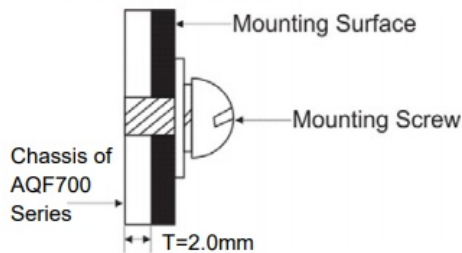


Tolerance ± 0.5 mm

A= For fixture to chassis only
 A=M3x0.5P
 B=For fixture to pcb/chassis only
 B=M3x0.5P
 Torque:3 \pm 0.5 Kgf.cm

ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm
 Customer is advised to screw into the threads no more than 2.0mm



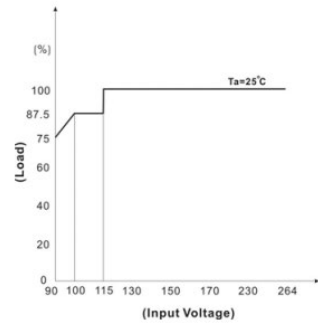
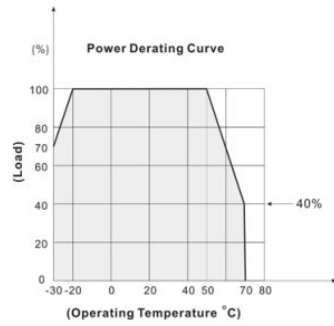
Connector Pin (CN1)					
Brands		Cheng Weel		JST	
PIN#	Single	Mating Housing	Terminal	Mating Housing	Terminal
C1	+S	PHD-H20-2X4P	PHD-T20	PHDR-08VS	SPHD-001T-P0.5
C2	-S				
C3	NC				
C4	-5V SB				
C5	GND / -RC				
C6	+RC				
C7	PG				
C8	+5V SB				

FUNCTION DESCRIPITON of CN1

Pin No.	Function	Description
C1	+S	Remote sensing (+)
C2	-S	Remote sensing (-)
C3	NC	
C4	-5V SB	This pin connects to the negative terminal(-V)
C5	GND / -RC	This pin connects to the negative terminal(-V). Return for DC-OK signal output.
C6	+RC	Turns the output on and off by electrical or dry contact between pin C5 (GND / -RC), Short: Power OFF, Open: Power ON.
C7	+PG	DC-OK Signal is a DC output. (DC-OK)
C8	+5V SB	Stand by voltage output ground 4.5-5.5V, referenced to pin C4 or C5(GND). The maximum load current is 1A.

Brands		Terminal			
PIN#	Single				
A,B	PE	—	—	—	—
1	FG	ANYTEK YK-301-3P M5 Pan HD screw in 2 positions Torque to 8 lbs-in(90 cNm) max.			
2	AC IN (N)				
3	AC IN (L)				
4	+DC OUT				
5	-DC OUT				

DERATING



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