

KEY FEATURES

- Enclosed ITE Switching Power Supply
- Remote ON/OFF Function
- Standby 5V@1A
- High Efficiency up to 92%
- With P.F.C. Function >0.9
- Ultra Compact Size: 6.7 x 3.66 x 1.61 Inches
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No.		AQF700-12S	AQF700-15S	AQF700-24S	AQF700-28S	AQF700-48S	
Max Output Wattage (W)	Vin:115(V.AC)	600W		675W			
	Vin:230(V.AC)	625W		700W			
Input	Voltage	90-264 VAC					
	Frequency (Hz)	50 / 60 Hz					
	Current (Full load)	<8 A max. (115 VAC) / <3.5 A max. (230 VAC)					
	Inrush Current (<2ms) (Cold Start)	< 55 A max. (115 VAC) / < 90 A max. (230 VAC)					
	Leakage Current	< 0.1 mA max. (Input-Output)					
	Power Factor (at 230 VAC)	PF>0.9 at Full Load					
Output	Voltage (V.DC.)	12V	15V	24V	28V	48V	
	Voltage Accuracy	±2%					
	Voltage Adj. Range (V.DC)	±4% Output Voltage					
	Current (A) (max.)	Vin:115(V.AC)	50	40	28.13	24.1	14.06
		Vin:230(V.AC)	52.08	41.66	29.16	25	14.58
	Line Regulation (115-264 VAC)	±0.5%					
	Load Regulation (10-100%) (typ.)	±1%					
	Minimum Load	1%					
	Maximum Capacitive Load	5,000µF	3,750µF	2,500µF	2,000µF	1,250µF	
	Ripple & Noise (typ.)	160mV	160mV	240mV	280 mV	480mV	
	Efficiency (at 230 VAC)	89%	90%	91%	92%	92%	
Hold-up Time (at 115 VAC)	5 ms min.						
Protection	Over Power Protection	Auto recovery					
	Over Voltage Protection	Auto recovery					
	Overt Temperature Protection	Auto recovery					
	Short Circuit Protection	Auto recovery or Latch					
Isolation	Input-Output (V.AC)	4000VAC or 5656VDC					
	Input-PE (V.AC)	2000V					
	Output-PE (V.AC)	1500V					
Function	5V Stand by	5VSB: 5V@1A; Tolerance ±10%					
	DC OK Signal (Power Good)	Turn ON: 3.7~5.7V ; Turn OFF: 0~1V					
	Remote Control	+RC / -RC: Power ON=open ; Power OFF=short					

ELECTRICAL SPECIFICATIONS

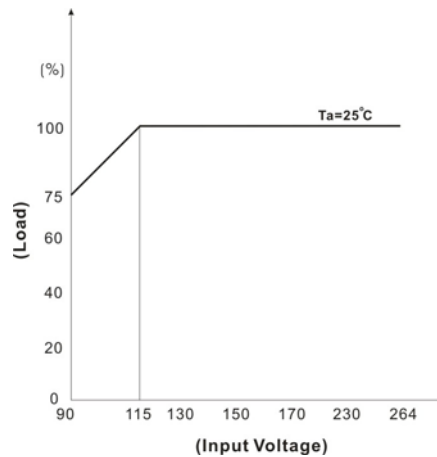
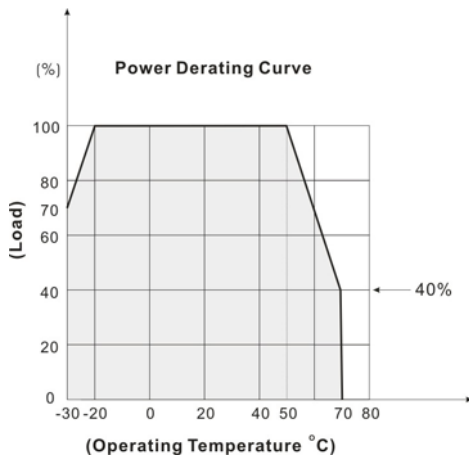
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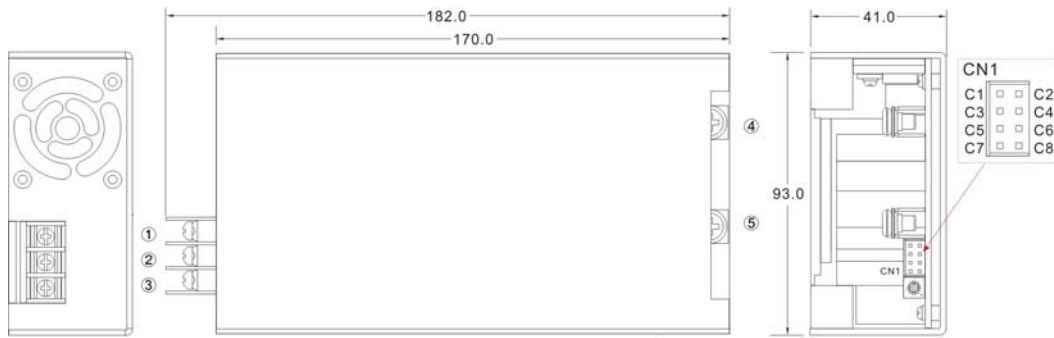
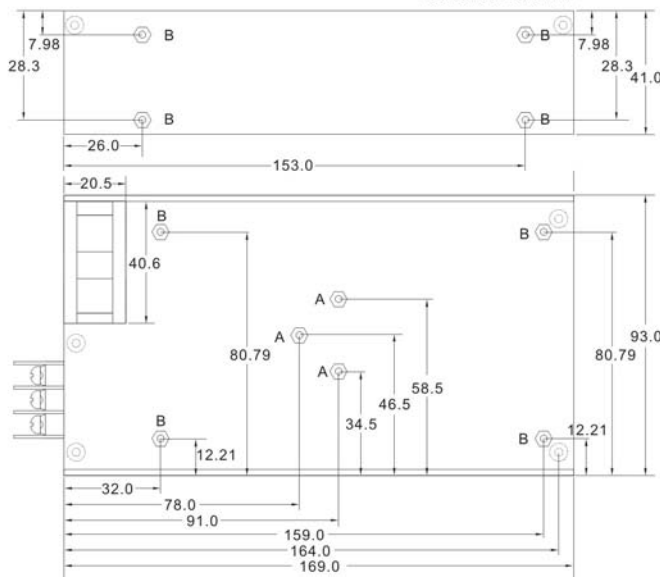
Model No.	AQF700-12S	AQF700-15S	AQF700-24S	AQF700-28S	AQF700-48S	
Environment	Operating Temperature	-30°C...+70°C (with derating)				
	Storage Temperature	-35°C...+85°C				
	Temperature Coefficient	±0.03%/°C (0~50°C)				
		±0.06%/°C (-30~0°C)				
	Altitude During Operation	5000m				
	Humidity	95% RH				
	Atmospheric Pressure	56 kPa to 106 kPa				
	MTBF	>100,000 h @ 25°C (MIL-HDBK-217F)				
Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.					
Physical	Dimension (L x W x H)	6.7 x 3.66 x 1.61 Inches (170.2 x 93.0 x 41.0 mm) Tolerance ±0.5 mm				
	Weight	In Progress				
Safety	Approval	UL / IEC / EN 62368 (In Progress)				
EMC	Conducted and Radiated EMI	EN55032 / EN55011 (conducted class B, Radiated Class A) (In Progress)				
	EMS	EN55024 / EN60601-1-2 4th edition (In Progress)				

NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth by using a 6" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
2. Hold-up Time measured at 90% Vout.
3. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors within Arch power supply.

DERATING



MECHANICAL DIMENSION (Top View)

 Tolerance ± 0.5 mm


A=For fixture to din rail clip only
 B=For fixture to pcb/chassis only
 A=M3x0.5P
 B=M3x0.5P

ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm
 Customer is advised to screw into the threads no more than 2.5mm

PIN#	Single	Terminal
AC Input Connector Pin		
1	PE	ANYTEK YK-301-3P
2	AC IN (N)	
3	AC IN (L)	
DC Output Connector Pin		
4	+DC OUT	M5 Pan HD screw in 2 positions
5	-DC OUT	Torque to 8 lbs-in(90 cNm) max.

Connector Pin (CN1) = Cherng Weei PHD2.0 - 2x4P			
PIN#	Single	Mating Housing	Terminal
C1	+S	Cherng Weei PHD2.0 - 2x4P or equivalent	Cherng Weei PHD2.0 - 2x4P or equivalent
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.

BLOCK DIAGRAM
