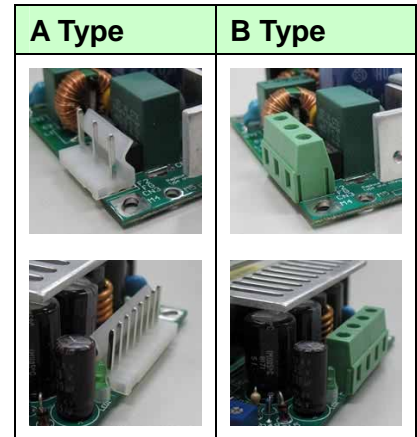


KEY FEATURES

- Open Frame Switching Power Supply
- 180 Watt with 18CFM FAN
- High Efficiency up to 93%
- Universal Input: 90-264 VAC
- Low Ripple and Noise
- With P.F.C. Function >0.95
- 120 Watt with Free Air Convection
- Ultra Compact Size: 5.0 x 3.0 x 1.16 Inches
- 2-Years Product Warranty


ELECTRICAL SPECIFICATIONS

Model No.	AQF1200-5S	AQF1200-12S	AQF1200-15S	AQF1200-24S	AQF1200-48S		
Max Output Wattage (18CFM FAN) (W)	120 W	180 W	180 W	180 W	180 W		
Max Output Wattage (W)	100 W	120 W	120 W	120 W	120 W		
Input	Voltage						
	90-264 VAC or 120-370 VDC (80-274 VAC or 110-390 VDC with Derating)						
	Frequency (Hz)						
	47-63 Hz						
	Current (Full load)						
	<2.0 A max. (115 VAC) / <1.0 A max. (230 VAC)						
Inrush Current (<2ms)							
< 30 A max. (115 VAC) / < 60 A max. (230 VAC)							
Leakage Current							
< 0.5 mA max.							
Power Factor							
PF>0.99 (115 VAC) / PF>0.95 (230 VAC) at Full Load							
Output	Voltage (V.DC.)		5V	12V	15V	24V	48V
	Voltage Accuracy		±2%				
	Voltage Adj. Range (V.DC)		4.5~5.1V	11.4~13.2V	13.5~16V	22.8~26.4V	45.6~52V
	Current (18CFM FAN) (A) max		0~24	0~15	0~12	0~7.5	0~3.75
	Current (Convection) (A) max		0~20	0~10	0~8	0~5	0~2.5
	Line Regulation		±1%				
	Load Regulation		±1%				
	Minimum Load		0%				
	Maximum Capacitive Load		80,000µF	40,000µF	35,000µF	20,000µF	1,200µF
	Ripple & Noise max.		50mV	50mV	50mV	100mV	100mV
	Efficiency (typ.)		87%	90%	90%	93%	93%
	Hold-up Time		15 ms min.				
	Switching Frequency		100 kHz				
Protection	Over Power Protection		Auto recovery				
	Over Voltage Protection		Auto recovery (> 125% Vout)				
	Short Circuit Protection		Auto recovery				
Isolation	Input-Output (V.AC)		4000V				
	Input-FG (V.AC)		2000V				
	Output-FG (V.AC)		500V				
Environment	Operating Temperature		-25°C...+70°C (with derating)				
	Storage Temperature		-25°C...+85°C				
	Temperature Coefficient		±0.03%/°C (0~50°C)				
	Humidity		95% RH				
	MTBF		>120,000 h @ 25°C (MIL-HDBK-217F, Notice 1)				
	Vibration		10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.				
Physical	Dimension (L x W x H)		5.0 x 3.0 x 1.16 Inches (127.0 x 76.2 x 29.5 mm) Tolerance ±0.5 mm				
	Weight		280 g				
	Cooling Method		Free convection / 18 CFM FAN				
Safety	Agency Approvals		CE, UL60950-1				
EMC	EMI (Conducted & Radiated Emission)		EN61000-6-3 · EN 55022 class B				
	EMS (Noise Immunity)		EN 55024				

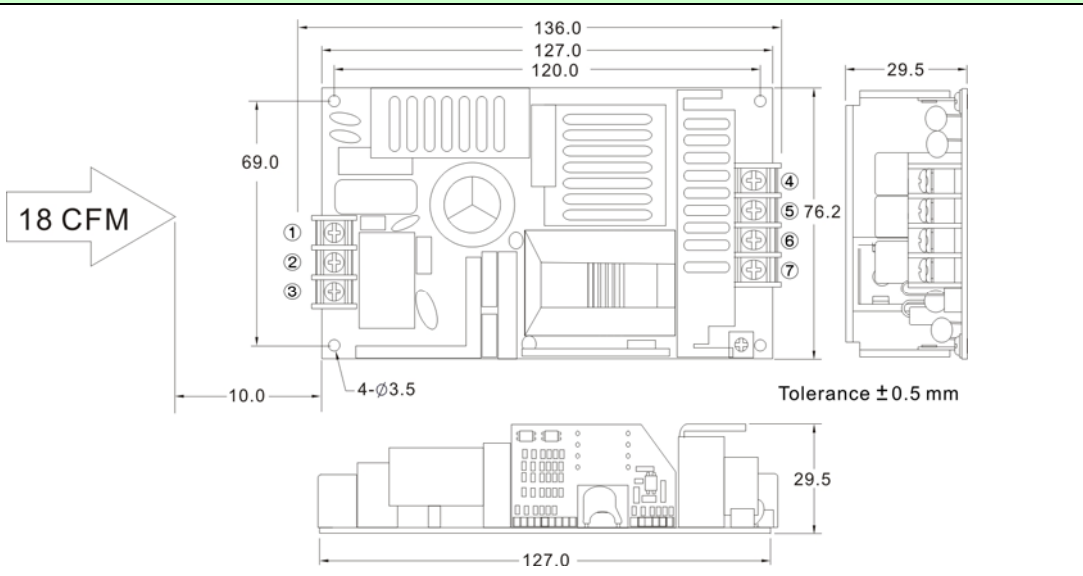
1.All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1UF & 47UF parallel capacitor.

3.Hold-up Time measured at 90% Vout.

MECHANICAL DIMENSION (Top View)

Standard

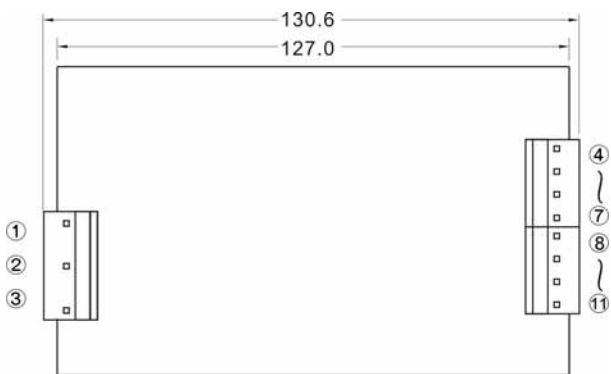


PIN#	SINGLE
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT

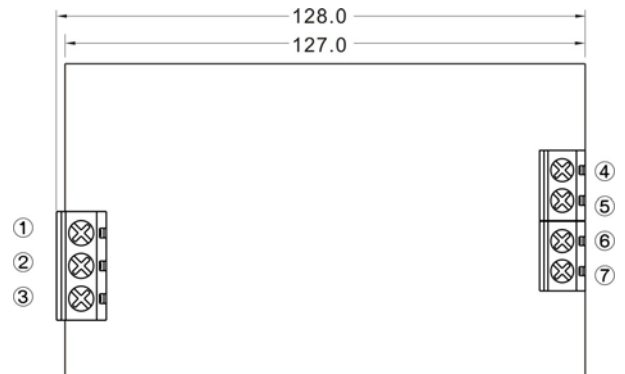
A Type



B Type

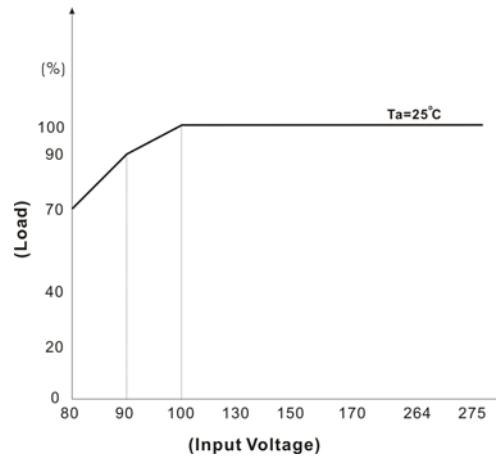
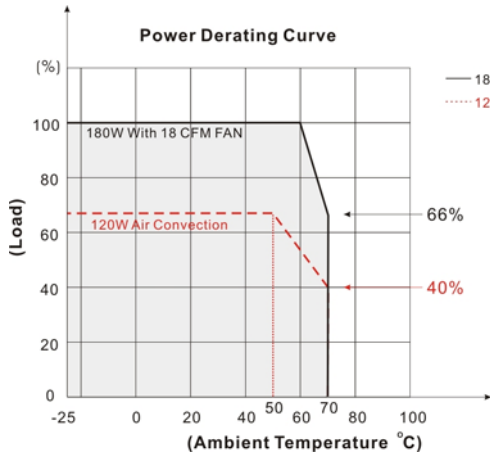


PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4 ~ 7	+DC OUT
8 ~ 11	-DC OUT

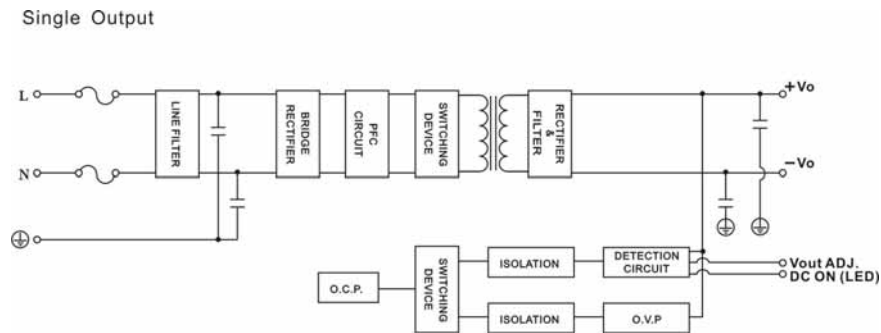


PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4 ~ 5	+DC OUT
6 ~ 7	-DC OUT

DERATING



BLOCK DIAGRAM



EFFICIENCY VERSUS LOAD

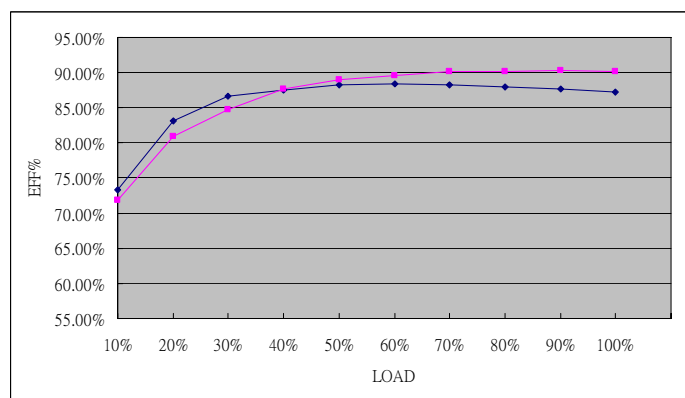
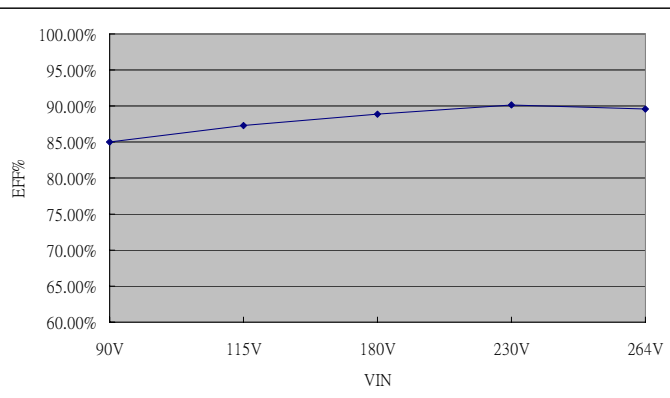
AQF1200-5S

VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	85.02	87.22	88.84	90.1	89.64

LOAD VS Efficiency

Load (%)	10	20	30	40	50
115V (%)	73.27	83.19	86.61	87.59	88.26
230V (%)	71.78	80.97	84.81	87.63	88.92
Load (%)	60	70	80	90	100
115V (%)	88.37	88.32	87.95	87.68	87.22
230V (%)	89.52	90.17	90.15	90.31	90.1



EFFICIENCY VERSUS LOAD

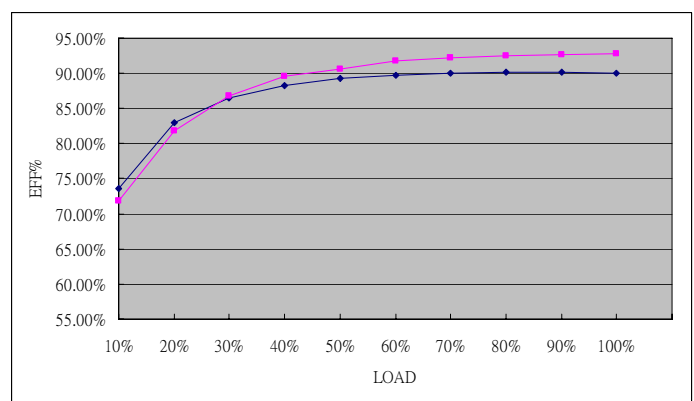
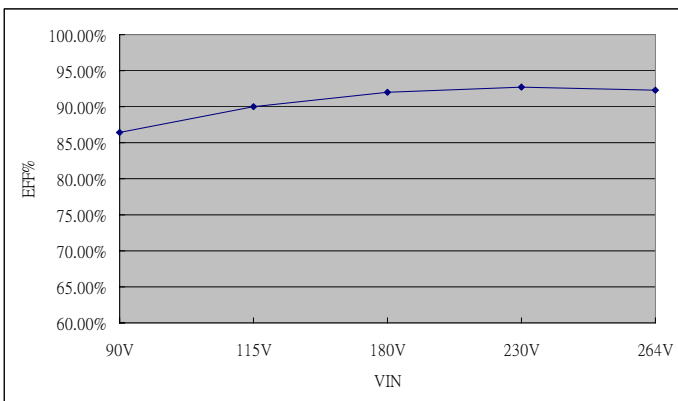
AQF1200-12S

VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	86.45	89.96	92	92.77	92.3

LOAD VS Efficiency

Load (%)	10	20	30	40	50
115V (%)	73.62	82.98	86.43	88.26	89.27
230V (%)	71.83	81.82	86.81	89.54	90.58
Load (%)	60	70	80	90	100
115V (%)	89.72	89.95	90.11	90.1	89.96
230V (%)	91.74	92.18	92.53	92.62	92.77



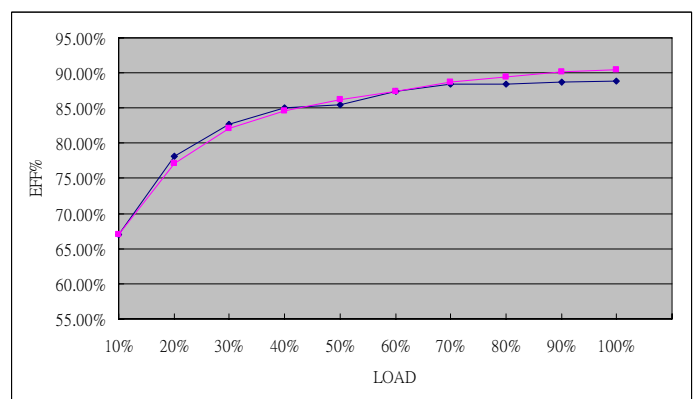
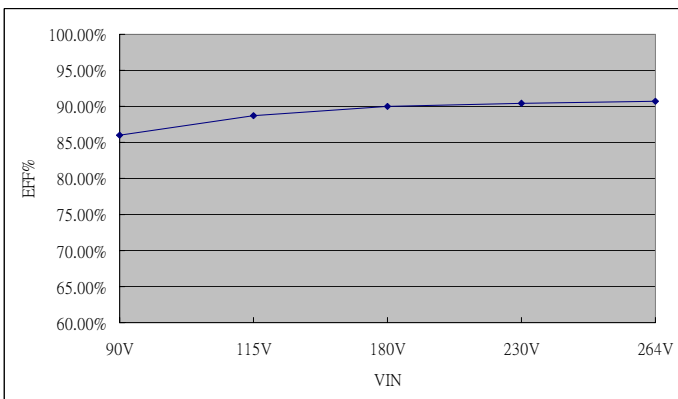
AQF1200-15S

VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	86.03	88.78	90.06	90.45	90.75

LOAD VS Efficiency

Load (%)	10	20	30	40	50
115V (%)	67.05	78.17	82.74	85.07	85.52
230V (%)	67.05	77.17	82.17	84.61	86.14
Load (%)	60	70	80	90	100
115V (%)	87.40	88.34	88.44	88.67	88.78
230V (%)	87.39	88.68	89.5	90.14	90.45

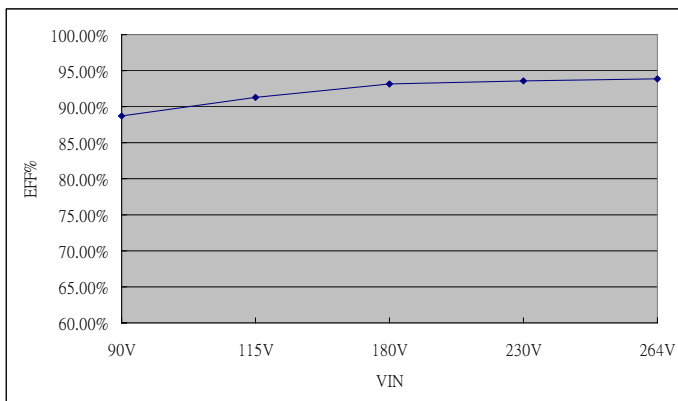


EFFICIENCY VERSUS LOAD

AQF1200-24S

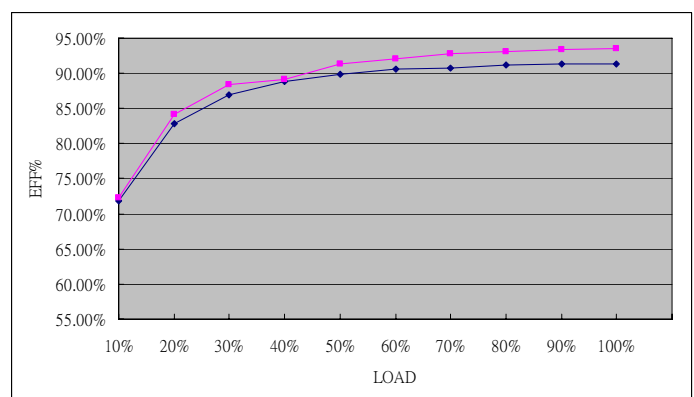
VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	88.78	91.27	93.11	93.52	93.81



LOAD VS Efficiency

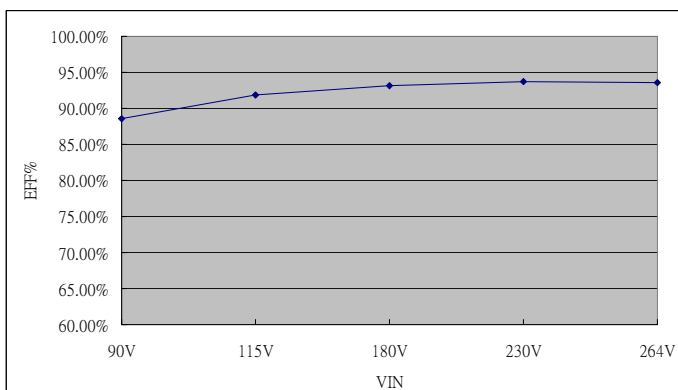
Load (%)	10	20	30	40	50
115V (%)	71.89	82.79	86.97	88.9	89.82
230V (%)	72.3	84.22	88.46	89.21	92.29
Load (%)	60	70	80	90	100
115V (%)	90.54	90.78	91.13	91.4	91.27
230V (%)	92.14	92.86	93.14	93.44	93.52



AQF1200-48S

VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	88.56	91.86	93.20	93.76	93.61



LOAD VS Efficiency

Load (%)	10	20	30	40	50
115V (%)	74.99	83.9	87.25	89.17	90.01
230V (%)	67.31	79.29	84.97	88.18	89.99
Load (%)	60	70	80	90	100
115V (%)	90.69	91.18	91.46	91.84	91.86
230V (%)	91.24	92.15	92.84	93.36	93.76

