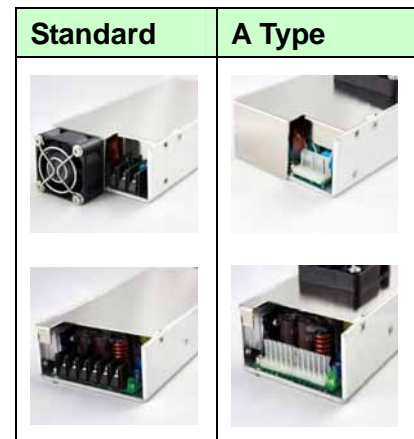


KEY FEATURES

- U Bracket Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- Cooling by Built-in 12 VDC FAN
- 240W Convection without FAN
- Protections: Over Load / Over Voltage /
Over Temperature / Short Circuit
All by Auto-recovery
- Leakage Current <300uA
- High Power Density
- High Efficiency up to 93%
- RoHS Compliant Design
- Ultra Compact Size: 6.8 x 3.2 x 1.5 Inches
- 2-Years Product Warranty


ELECTRICAL SPECIFICATIONS

Model No.	AQF360U-12S	AQF360U-24S	AQF360U-36S	AQF360U-48S	AQF360U-54S	
Max Output Wattage (Convection) (W)	240W	240W	240W	240W	240W	
Max Output Wattage (18CFM FAN) (W)	360W	360W	360W	360W	360W	
Input	Voltage					
	90-264 VAC or 120-370 VDC					
	Frequency (Hz)					
	47-63 Hz					
	Current (Full load)					
	< 4.0 A max. (115 VAC) / < 2.0 A max. (230 VAC)					
Inrush Current (<2ms)						
< 30 A max. (115 VAC) / < 60 A max. (230 VAC)						
Leakage Current						
< 0.3 mA max.(240VAC 63Hz)						
Power Factor						
PF>0.98 (115 VAC) / PF>0.93 (230 VAC) at Full Load						
Output	Voltage (V.DC.)	12V	24V	36V	48V	54V
	Trim	10.8 ~ 13.2V	21.6 ~ 26.4V	32.7 ~ 39.6V	44 ~ 51V	51.3 ~ 56.7V
	Voltage Accuracy	±2%				
	Current (Convection) (A) max	20	10	6.66	5	4.44
	Current (18CFM FAN) (A) max	30	15	10	7.5	6.66
	Line Regulation (LL-HL) (typ.)	±1%				
	Load Regulation (5-100%) (typ.)	±1%				
	Minimum Load	0%				
	Maximum Capacitive Load	85000 uF	48000 uF	21000 uF	13000 uF	7000 uF
	Ripple & Noise (max.)	120mVp-p		200mVp-p		
	Efficiency (typ.)	90%	92%	93%	93%	93%
	Hold-up Time	12 ms min.				
	Switching Frequency	75 kHz				
	FAN Supply	12 VDC / 0.5A max.				
Protection	Over Power Protection	Auto recovery				
	Over Voltage Protection	Auto recovery				
	Over Temperature	Auto recovery				
	Short Circuit Protection	Auto-recovery				
Isolation	Input-Output (V.AC)	3000V				
	Input-FG (V.AC)	1500V				
	Output-FG (V.AC)	500V				

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.

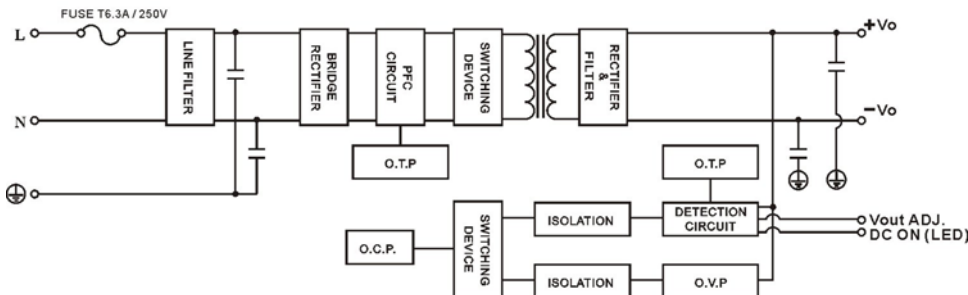
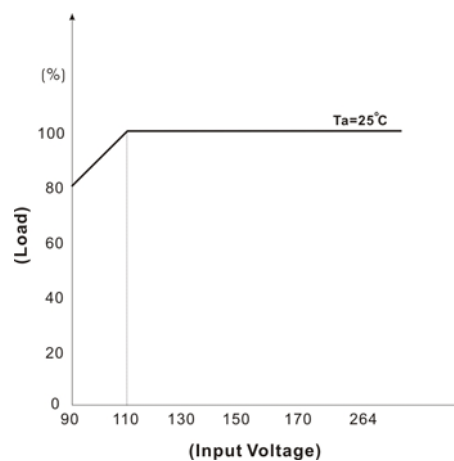
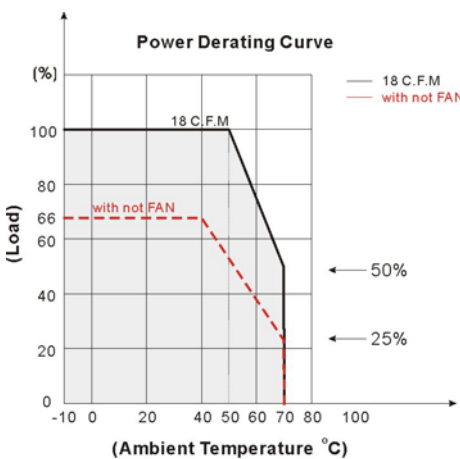
ELECTRICAL SPECIFICATIONS

Model No.	AQF360U-12S	AQF360U-24S	AQF360U-36S	AQF360U-48S	AQF360U-54S
Environment	Operating Temperature				
	-10°C...+70°C (with derating)				
	Storage Temperature				
	-25°C...+85°C				
	Temperature Coefficient				
	±0.03%/°C (0~50°C)				
Physical	Humidity				
	95% RH				
	MTBF				
	>120,000 h @ 25°C (MIL-HDBK-217F)				
	Vibration				
	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.				
Safety	Dimension (L x W x H)				
	6.8 x 3.2 x 1.5 Inches (172.7 x 81.3 x 38.0 mm) Tolerance ±0.5 mm				
	Weight				
EMC	668 g				
	Cooling Method				
	240W Convection without FAN				
EMC	Agency Approvals				
	CE, UL60950				
	EMI (Conducted & Radiated Emission)				
EMC	EN 55022 class B				
	EMS (Noise Immunity)				
EN 55024					

- All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
- Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.

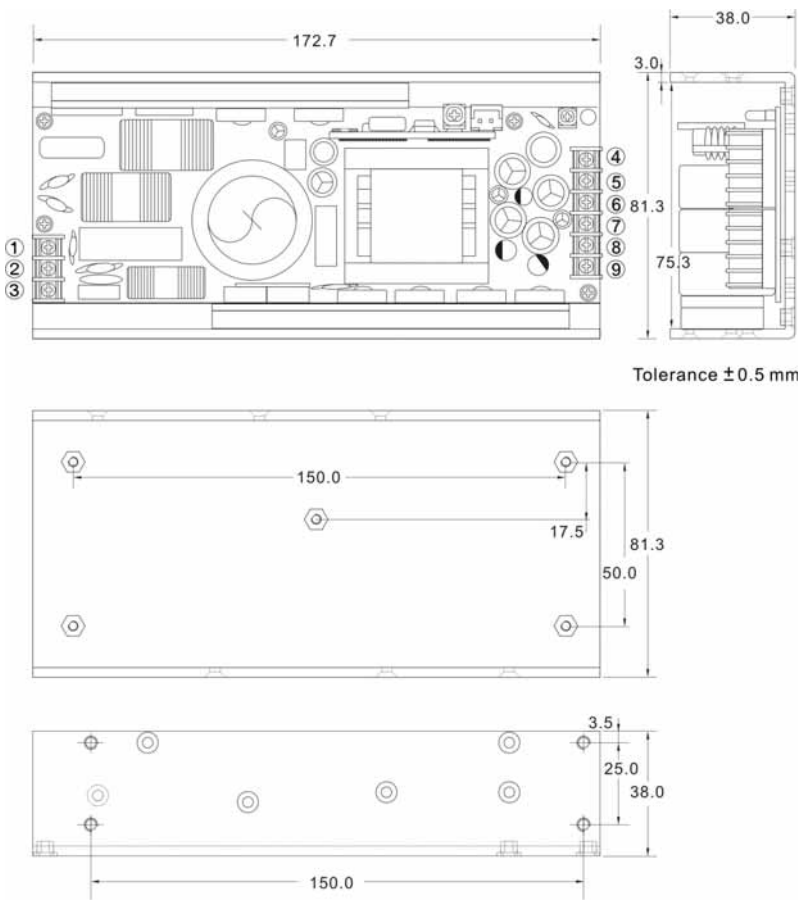
BLOCK DIAGRAM

Single Output


DERATING


MECHANICAL DIMENSION (Top View)

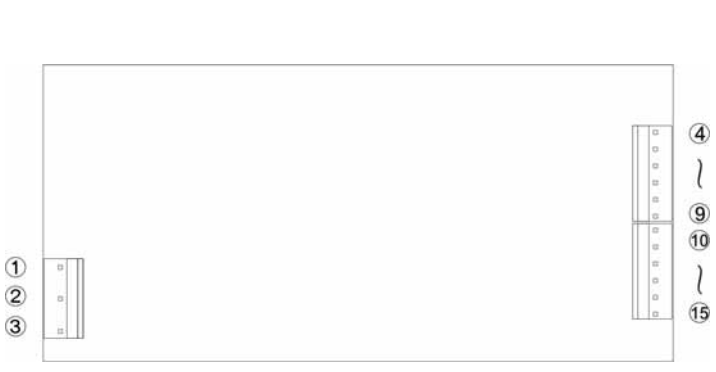
Standard



PIN#	SINGLE
1	FG
2	AC IN (N)
3	AC IN (L)
4-6	+DC OUT
7-9	-DC OUT
FAN	WAFER(2.5)



A Type

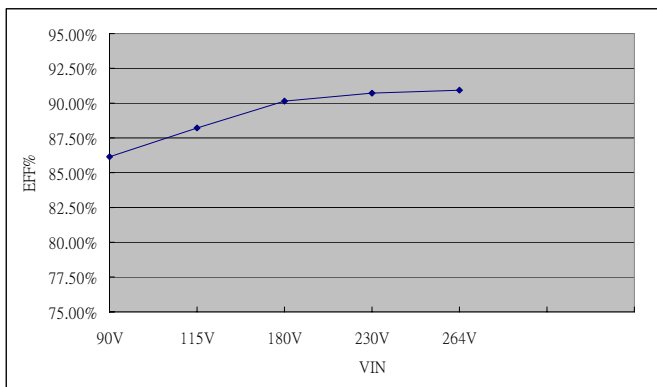


PIN#	SINGLE
1	FG
2	AC IN (N)
3	AC IN (L)
4-9	+DC OUT
10-15	-DC OUT
FAN	WAFER(2.5)

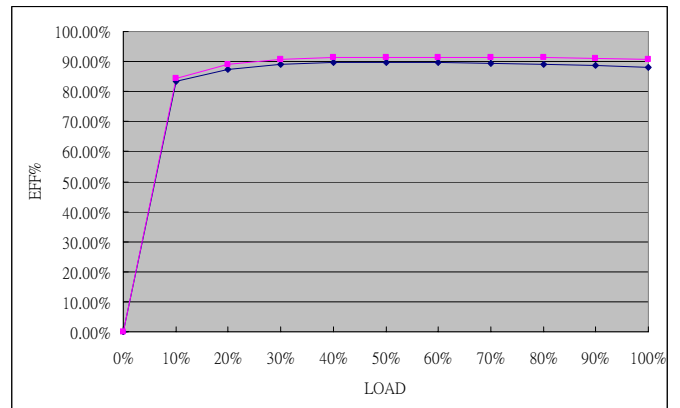


EFFICIENCY VERSUS LOAD
AQF360U-12S
VIN VS Efficiency

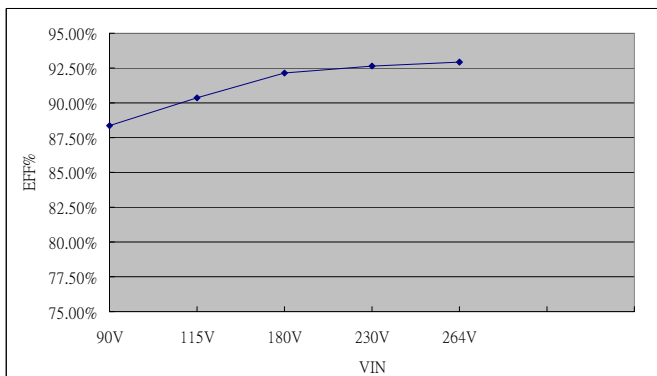
Input Voltage (V)	90	115	180	230	264
Efficiency (%)	86.12	88.20	90.15	90.69	90.95


LOAD VS Efficiency

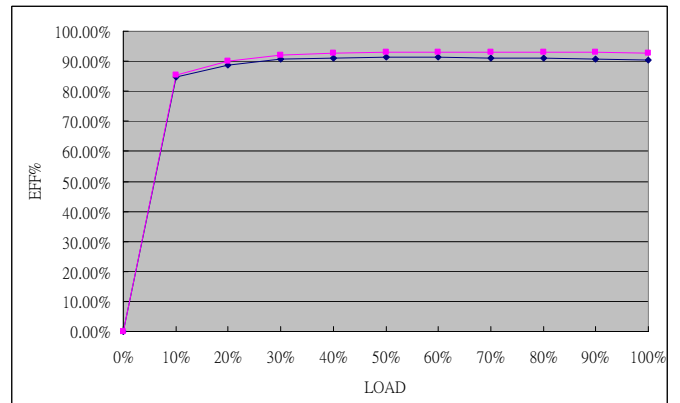
Load (%)	0	10	20	30	40	50
115V (%)	0	83.25	87.43	89.02	89.67	89.80
230V (%)	0	84.38	88.94	90.75	91.24	91.49
Load (%)	60	70	80	90	100	
115V (%)	89.64	89.39	89.00	88.65	88.20	
230V (%)	91.46	91.38	91.22	91.02	90.09	


AQF360U-24S
VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	88.36	90.35	92.13	92.67	92.96

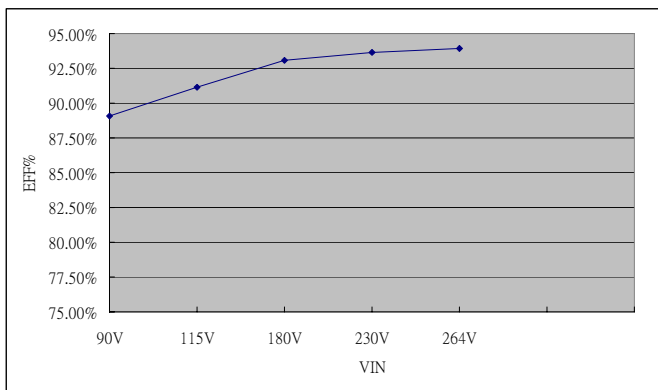

LOAD VS Efficiency

Load (%)	0	10	20	30	40	50
115V (%)	0	84.77	88.62	90.54	91.14	91.33
230V (%)	0	85.54	90.08	92.06	92.62	92.99
Load (%)	60	70	80	90	100	
115V (%)	91.32	91.18	90.98	90.70	90.35	
230V (%)	93.08	93.08	93.02	92.91	92.67	

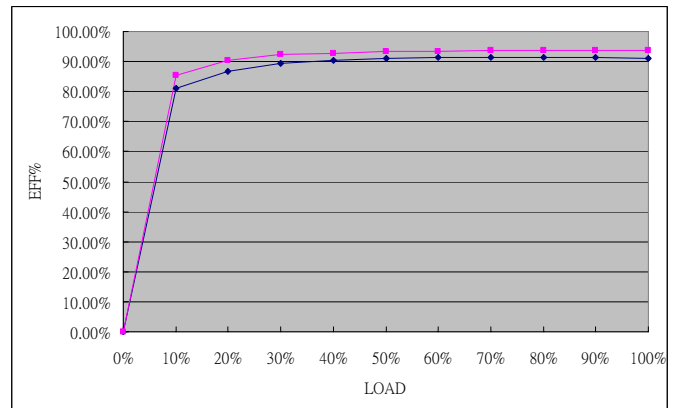


EFFICIENCY VERSUS LOAD
AQF360U-36S
VIN VS Efficiency

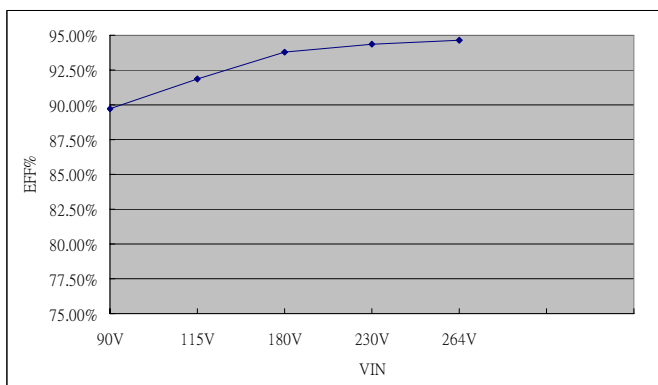
Input Voltage (V)	90	115	180	230	264
Efficiency (%)	89.04	91.17	93.06	93.64	93.93


LOAD VS Efficiency

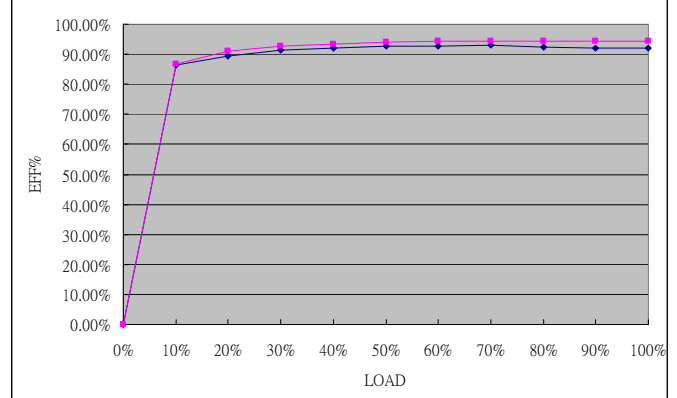
Load (%)	0	10	20	30	40	50
115V (%)	0	80.96	86.76	89.39	90.51	91.01
230V (%)	0	85.51	90.25	92.24	92.82	93.39
Load (%)	60	70	80	90	100	
115V (%)	91.21	91.36	91.37	91.31	91.17	
230V (%)	93.46	93.68	93.76	93.68	93.64	


AQF360U-48S
VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	89.75	91.89	93.79	94.36	94.67

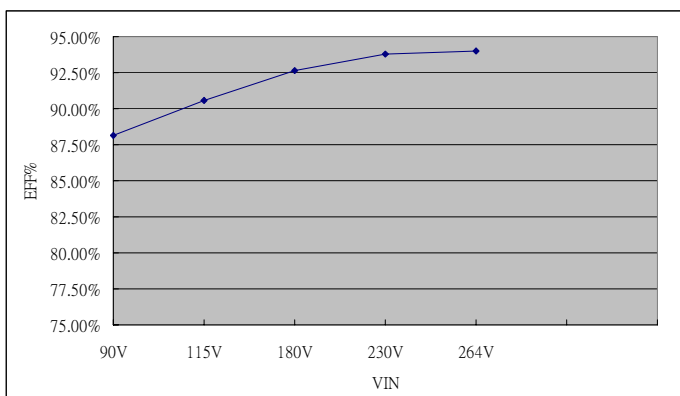

LOAD VS Efficiency

Load (%)	0	10	20	30	40	50
115V (%)	0	86.43	89.33	91.43	92.17	92.58
230V (%)	0	86.80	90.87	92.74	93.47	94.02
Load (%)	60	70	80	90	100	
115V (%)	92.58	93.00	92.38	92.18	91.89	
230V (%)	94.02	94.23	94.24	94.40	94.36	



EFFICIENCY VERSUS LOAD
AQF360U-54S
VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264
Efficiency (%)	88.12	90.58	92.65	93.79	93.99


LOAD VS Efficiency

Load (%)	0	10	20	30	40	50
115V (%)	0.00	86.37	88.87	89.82	90.28	90.91
230V (%)	0.00	88.59	91.67	92.80	93.35	93.66
Load (%)	60	70	80	90	100	
115V (%)	90.98	90.96	90.95	90.87	90.58	
230V (%)	93.79	93.83	93.86	93.80	93.79	

