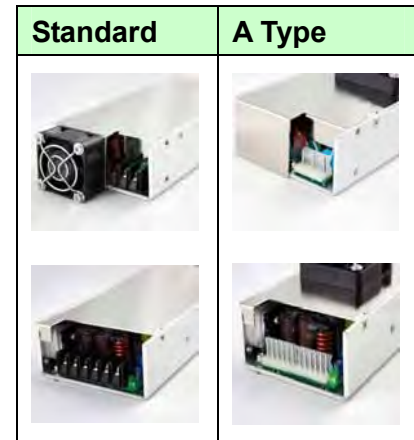


' * \$ 'K Uhg 'G9F =9G

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.	360U-12S	360U-24S	360U-36S	360U-48S
Max Output Wattage (Convection) (W)	240W	240W	240W	240W
Max Output Wattage (18CFM FAN) (W)	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>0.99 (115 VAC) / PF>0.93 (230 VAC) at Full Load				
Output	Voltage (V.DC.)			
	12V	24V	36V	48V
	Trim			
	10.8 ~ 13.2V	21.6 ~ 26.4V	32.7 ~ 39.6V	44 ~ 51V
	Voltage Accuracy			
	±2%			
	Current (Convection) (A) max			
	20	10	6.66	5
	Current (18CFM FAN) (A) max			
	30	15	10	7.5
	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	
Ripple & Noise (max.)				
120mVp-p	200mVp-p			
Efficiency (typ.)				
90%	92%	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.

..... * \$ 'K Uhg'G9F =9G

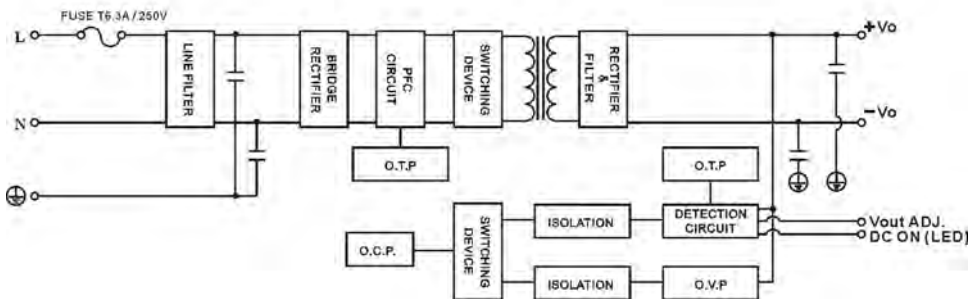
ELECTRICAL SPECIFICATIONS

Model No.		360U-12S	360U-24S	360U-36S	360U-48S
Environment	Operating Temperature	-10°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)			
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.			
Physical	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 668	g			
	Cooling Method	240W Convection without FAN			
Safety Agenc	y Approvals	CE, UL60950			
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class B			
	EMS (Noise Immunity)	EN 55024			

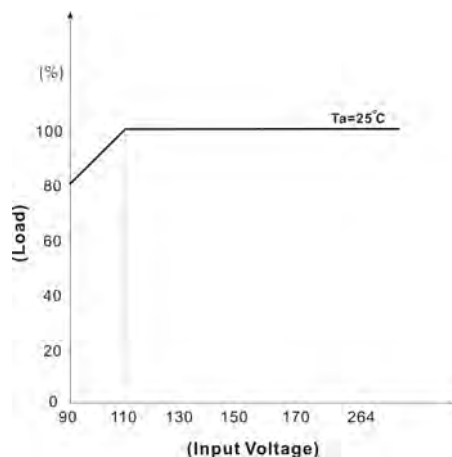
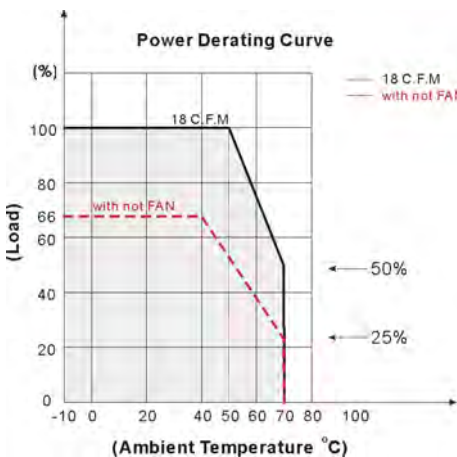
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2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.

BLOCK DIAGRAM

Single Output



DERATING



' * \$ 'K Uhg`G9F =9G

MECHANICAL DIMENSION (Top View)

Standard															
<p style="text-align: center;">Tolerance ± 0.5 mm</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #ffcc99;"> <th style="text-align: left;">PIN#</th> <th style="text-align: left;">SINGLE</th> </tr> </thead> <tbody> <tr><td>1</td><td>FG</td></tr> <tr><td>2</td><td>AC IN (N)</td></tr> <tr><td>3</td><td>AC IN (L)</td></tr> <tr><td>4~6</td><td>+DC OUT</td></tr> <tr><td>7~9</td><td>-DC OUT</td></tr> <tr><td>FAN W</td><td>AFER(2.5)</td></tr> </tbody> </table> <div style="text-align: center; margin-top: 10px;"> </div> <div style="text-align: center; margin-top: 10px;"> </div> <div style="text-align: center; margin-top: 10px;"> </div>	PIN#	SINGLE	1	FG	2	AC IN (N)	3	AC IN (L)	4~6	+DC OUT	7~9	-DC OUT	FAN W	AFER(2.5)
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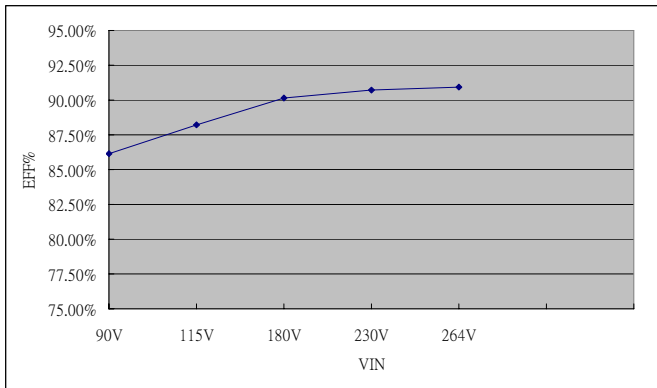
' * \$ ' K U h g ' G 9 F = 9 G

EFFICIENCY VERSUS LOAD

360U-12S

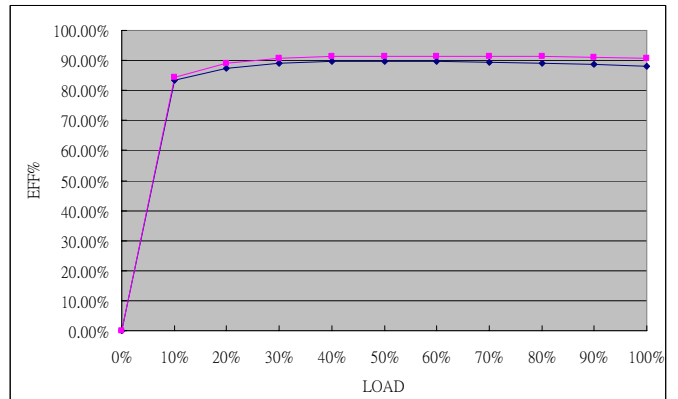
VIN VS Ef ficiency

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



LOAD VS Ef ficiency

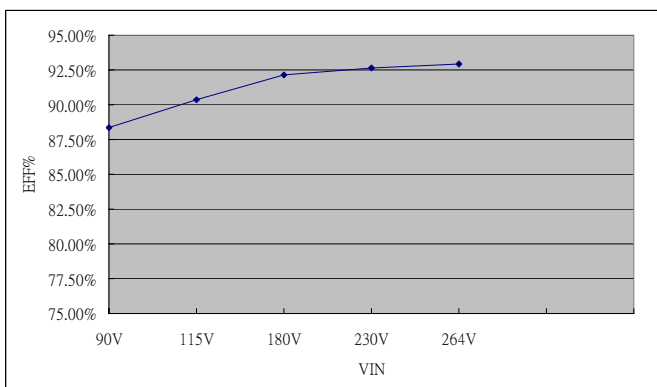
Load (%)	0	10	20	30	40	50			
115V (%)	0	83.25		87.43	89.02	89.67	89.80		
230V (%)	0	84.38		88.94	90.75	91.24	91.49		
Load (%)	60	70	80	90			100		
115V (%)	89.64	89.39	89.00	88.65	88.20				
230V (%)	91.46	91.38	91.22	91.02	90.09				



360U-24S

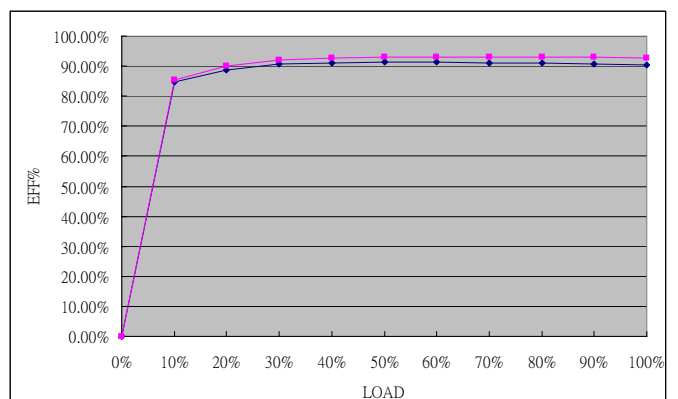
VIN VS Ef ficiency

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



LOAD VS Ef ficiency

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				



' * \$ ' K U h g ' G 9 F = 9 G

EFFICIENCY VERSUS LOAD

