

KEY FEATURES

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-305VAC
- High Efficiency up to 90%
- Isolation Class II
- <0.3W No Load Input Power
- Very Small 1.77" x 2.52" x 0.92" Package
- Screw Terminal For Optional
- CE, UL Approval
- 3-Years Product Warranty



ELECTRICAL SPECIFICATIONS

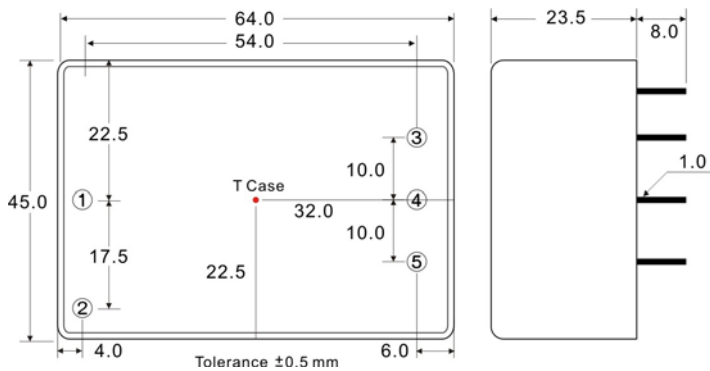
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No. (Single Output)	ATC30-3.3S	ATC30-5S	ATC30-12S	ATC30-15S	ATC30-24S
Max Output Wattage (W)	16.5W	25W	30W	30W	30W
Input	Voltage (Note1)				
	90-305 VAC or 120-430 VDC				
	Frequency (Hz)				
	47-63 Hz				
	Current (Full load)				
	600 mA max. (115 VAC) / 400 mA max. (230 VAC)				
	Inrush Current (<2ms)				
30 A max. (115 VAC) / 60 A max. (230 VAC)					
Leakage Current					
0.25 mA max.					
No Load Input Power (<240 VAC)					
<0.3W					
External Fuse (recommend)					
3.15 A slow blow type					
Output	Voltage (V.DC.)				
	3.3V	5V	12V	15V	24V
	Voltage Accuracy				
	±2%				
	Current (mA) max				
	5000	5000	2500	2000	1250
	Line Regulation (LL-HL) (typ.)				
	±0.5%				
Load Regulation (10-100%) (typ.)					
±1.5%		±1%			
Maximum Capacitive Load					
8200 uF	8200 uF	2200 uF	1500 uF	560 uF	
Ripple & Noise (max.) (Note2)					
100mVp-p	100mVp-p	150mVp-p	150mVp-p	240mVp-p	
Efficiency (at 230 VAC)					
80%	84%	89%	87%	86%	
Hold-up Time					
10 ms min.					
Protection	Over Power Protection				
	Hiccup technique, auto-recovery				
	Over Voltage Protection				
Zener diode clamp					
Short Circuit Protection					
Hiccup mode, indefinite (automatic recovery)					
Isolation	Input-Output (V.AC)				
	3000V				
	Input-FG (V.AC)				
1500V					
Output-FG (V.AC)					
500V					
Environment	Operating Temperature				
	-40°C...+70°C (with derating)				
	Storage Temperature				
	-40°C...+85°C				
	Max Case Operating Temperature				
	Under 115 VAC 78°C , others 85°C				
Temperature Coefficient					
±0.02%/°C					
Humidity					
95% RH					
MTBF					
>250,000 h @ 25°C (MIL-HDBK-217F)					
Physical	Dimension (L x W x H)				
	2.52 x 1.77 x 0.92 Inches (64.0 x 45.0 x 23.5 mm) Tolerance ±0.5 mm				
	Case Material				
	Plastic resin with Fiberglass (flammability to UL 94V-0)				
Weight					
130 g					
Cooling Method					
Free air convection					
Safety	Agency Approvals				
CE, UL/cUL					
EMC	EMI (Conducted & Radiated Emission)				
	EN 55022 class B				
EMS (Noise Immunity)					
EN 55024					

Note:

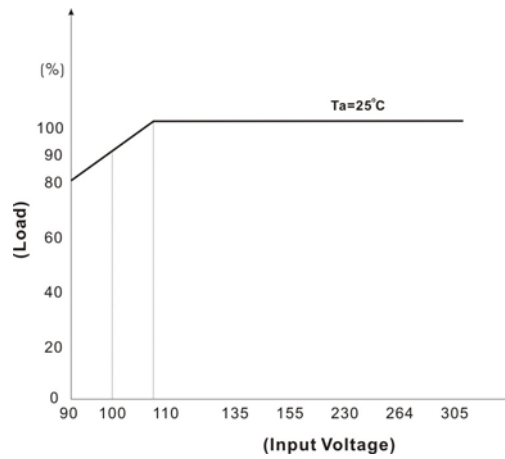
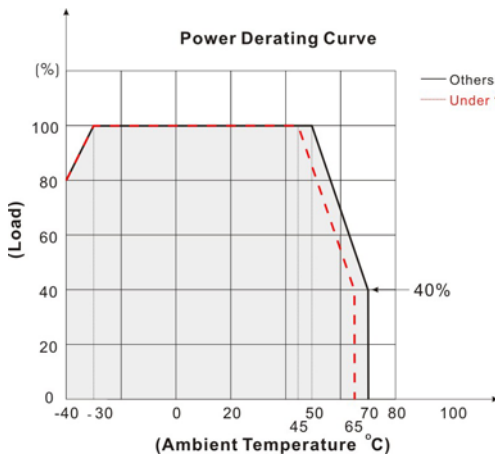
1. Please check the derating curve for more details
2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.

MECHANICAL DIMENSION (Top View)



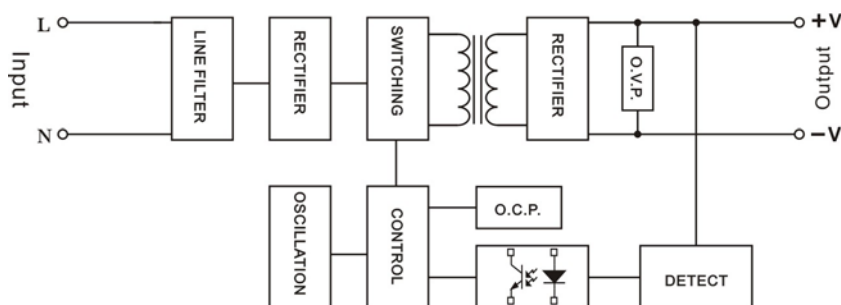
PIN#	SINGLE
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	NO PIN
5	+DC OUT

DERATING



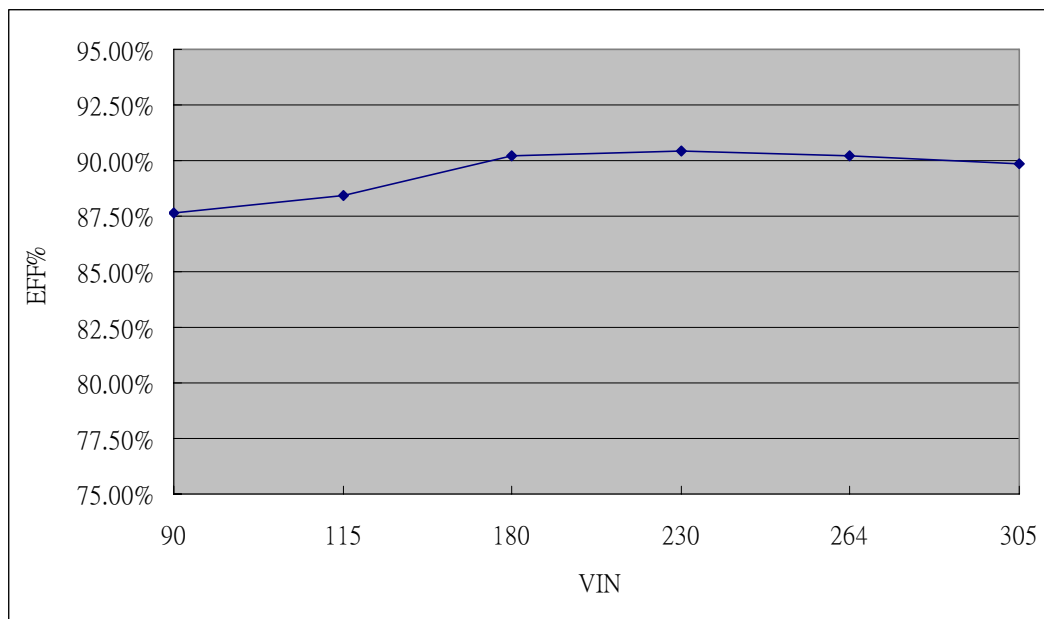
BLOCK DIAGRAM

Single Output

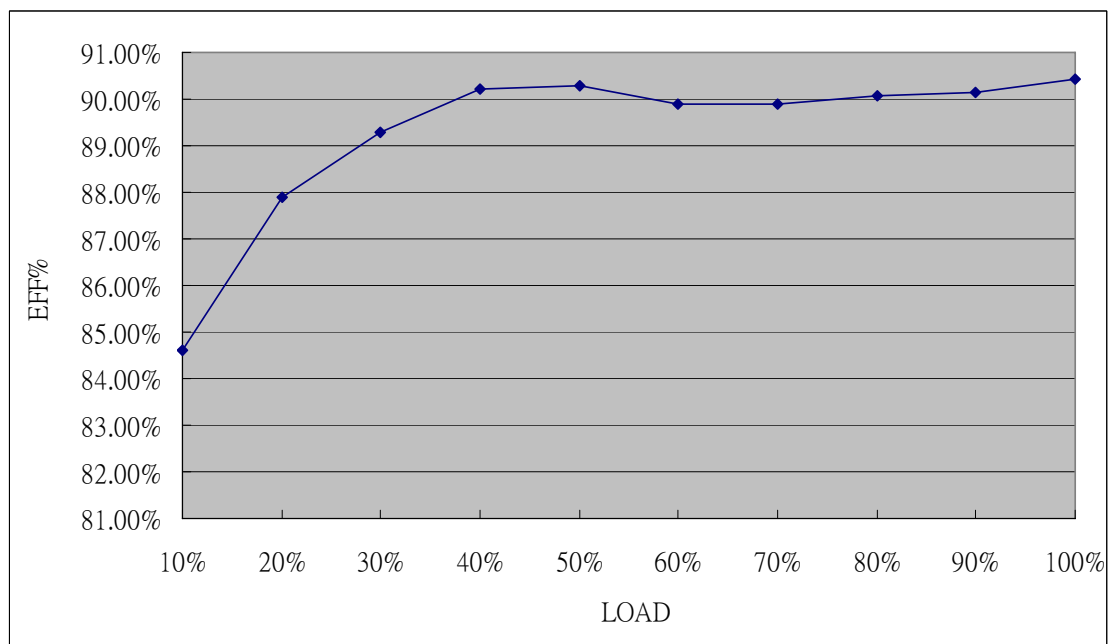


EFFICIENCY VERSUS LOAD
ATC30-12S
VIN VS Efficiency

Input Voltage (V)	90	115	180	230	264	305
Efficiency (%)	87.6	88.4	90.2	90.4	90.2	89.9

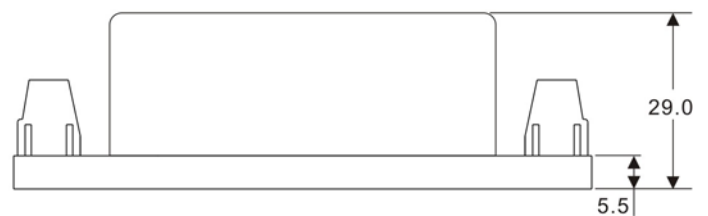
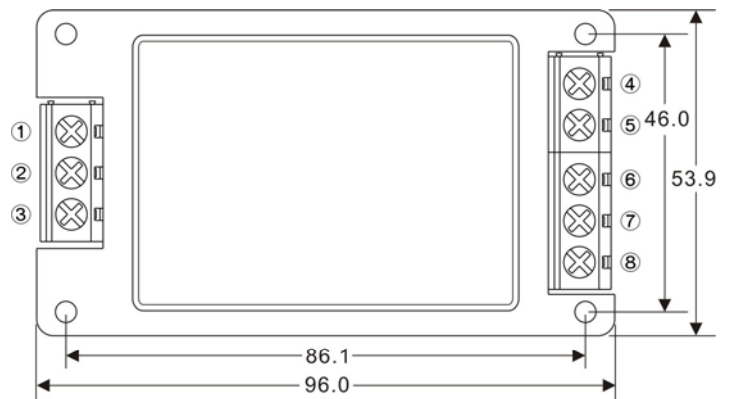

LOAD VS Efficiency

Load (%)	10	20	30	40	50	60	70	80	90	100
230V (%)	84.6	87.9	89.3	90.2	90.3	89.9	89.9	90.1	90.1	90.4



SCREW TERMINAL
ATC30-A2


PIN#	Single
1	NO CONNECT
2	AC IN (N)
3	AC IN (L)
4.	NO CONNECT
5	-DC OUT
6	NO CONNECT
7	+DC OUT
8	NO CONNECT


ATC30-A5


PIN#	Single
1	NO CONNECT
2	AC IN (N)
3	AC IN (L)
4.	NO CONNECT
5	-DC OUT
6	NO CONNECT
7	+DC OUT
8	NO CONNECT

