

ATCW40 SERIES

40 Watts

KEY FEATURES

- Universal Input Range 90-330VAC, 47-440 Hz
- I/O Isolation 5700VAC
- Operating Ambient Temperature Range -40°C to +70°C
- No Load Power Consumption < 0.1W (except 48S)
- Over-Voltage Category OVC IV
- High Efficiency up to 89%
- Isolation Class II
- EMC Compliant without External Components
- Safety Approval to UL / IEC / EN 62368-1
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

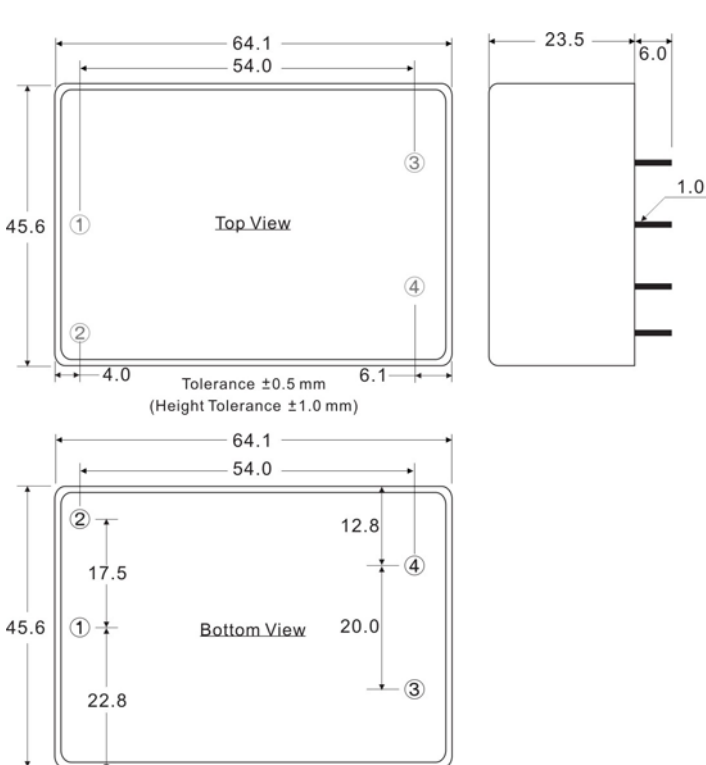
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No.	ATCW40-5S	ATCW40-12S	ATCW40-15S	ATCW40-24S	ATCW40-48S
Max Output Wattage (W)	35W	40W			
Input	Voltage				
	90-330 VAC or 120-450 VDC				
	Frequency (Hz)				
	47-440 Hz				
	Current (Full load)				
	1000 mA max. (115 VAC) / 500 mA max. (230 VAC)				
Inrush Current (<2ms)					
60 A max. (115 VAC) / 100 A max. (230 VAC)					
Leakage Current					
0.25 mA max. (100-240 VAC)					
No Load Power Consumption (115 / 230 VAC)					
< 0.1W					
Output	Voltage (V.DC.)				
	5V	12V	15V	24V	48V
	Voltage Accuracy				
	±2%				
	Current (mA) max				
	7000	3333	2666	1666	833
	Line Regulation (LL-HL) (typ.)				
	±0.5%				
	Load Regulation (0-100%) (typ.)				
	±1%				
Minimum Load					
0%					
Maximum Capacitive Load					
8000 uF	6000 uF	5000 uF	1200 uF	330 uF	
Ripple & Noise (Full Load)					
120mV		150mV		240mV	
Efficiency (at 230 VAC)					
87%	89%	89%	88%	88%	
Hold-up Time (typ)					
30 ms (at 230VAC)					
Protection	Over Power Protection				
	Auto recovery				
	Over Voltage Protection				
Zener diode clamp					
Short Circuit Protection					
Hiccup mode (automatic recovery)					
Isolation	Input-Output (V.AC)				
5700V					
Environment	Operating Temperature				
	-40°C...+70°C (with derating)				
	Storage Temperature				
	-40°C...+70°C				
	Temperature Coefficient				
	±0.05%/°C				
	Altitude During Operation (UL / IEC / EN 62368-1)				
	2000m				
Humidity					
95% RH					
MTBF					
>300,000 h @ 25°C (MIL-HDBK-217F)					
Over Voltage Category					
IV: Compliance to EN 62368.					
Vibration					
IEC60068-2-6 (10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes)					
Shock					
IEC60068-2-27					
Physical	Dimensions (L x W x H)				
	2.52 x 1.8 x 0.93 Inches (64.1 x 45.6 x 23.5 mm) Tolerance ±0.5 mm, Height Tolerance ±1 mm				
	Case Material				
	Plastic resin (flammability to UL 94V-0)				
Weight					
125 g					
Cooling Method					
Free air convection					
Safety	Approval				
UL / IEC / EN 62368-1					
EMC	EMI (Conducted & Radiated Emission)				
	EN 55032 class B				
EMS (Noise Immunity)					
EN 55035					

NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. CAUTION: Double pole, neutral fusing. Disconnect mains before servicing.
(ATTENTION : 2 poles avec fusible sur le neutre. Deconnecter le secteur avant intervention.)
3. Please refer to our PDF file "AC-DC Application" on our website: www.archcorp.com.tw

MECHANICAL DIMENSIONS (Top View)



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT

DERATING

