

■ Features

- Single output from 50-60W
- Input voltage range: 90-264V
- Output current(0-10000mA)
- 2"x 4" form factor
- No load power <0.5W
- High variety of output voltages from 5Vdc-48Vdc
- Efficiency to 87%
- Protections: OVP, SCP, OTP, and overload
- Designed to meet IEC/ UL 62368-1 and IEC/ EN 60601-1



*Product images are for illustrative purposes only and may vary from actual design.

■ Applications

- Network system, telecommunication system, storage system, industrial equipment, and printers

■ Model List*(See part number scheme for model number details)

Model Number	Input Voltage	Output Power Forced Air Cooling	Output Power Power Convection	Output Voltage	Voltage Adj. Range	Output Current Forced Air	Output Current Convection	Efficiency
APS-OPS2x4-60-05	90-264Vac	NA	50W	5V	5V-6V	NA	10A	78%
APS-OPS2x4-60-12	90-264Vac	NA	60W	12V	12V-14V	NA	5A	85%
APS-OPS2x4-60-15	90-264Vac	NA	60W	15V	15V-17.5V	NA	4A	85%
APS-OPS2x4-60-24	90-264Vac	NA	60W	24V	24V-28V	NA	2.5A	87%
APS-OPS2x4-60-48	90-264Vac	NA	60W	48V	48V-56V	NA	1.25A	87%

■ Technical Data

Input Voltage	90-264Vac
Frequency	50/60 Hz
Input Current	1.2A @115Vac, 0.8A@230Vac
Power Factor	No Active PFC
Inrush Current	<60 Amps; Measured at 264Vac, 25°C Ambient, Cold start
Leakage Current	< 300uA; 264Vac input
Touch Current	< 100uA; 264Vac input
No Load Power Consumption	< 0.5W
Ripple & Noise	<1.5% of Vout(5V), <1% of Vout(all other models)
Voltage Tolerance	±1%
Line Regulation	<1% of Vout
Load Regulation	±1%
Turn On Time	<3 sec; at full load
Hold Up Time	≥60ms at 230Vac & ≥15ms at 115Vac, Full load
Rise Time	<100ms
Fan Output	Not available
Over Voltage Protection	6.8V±0.5V, 17V±1V, 20V±1V, 31.5V±1V, 61V±2V DC Latched type; Input AC power to be recycled to recover the power supply

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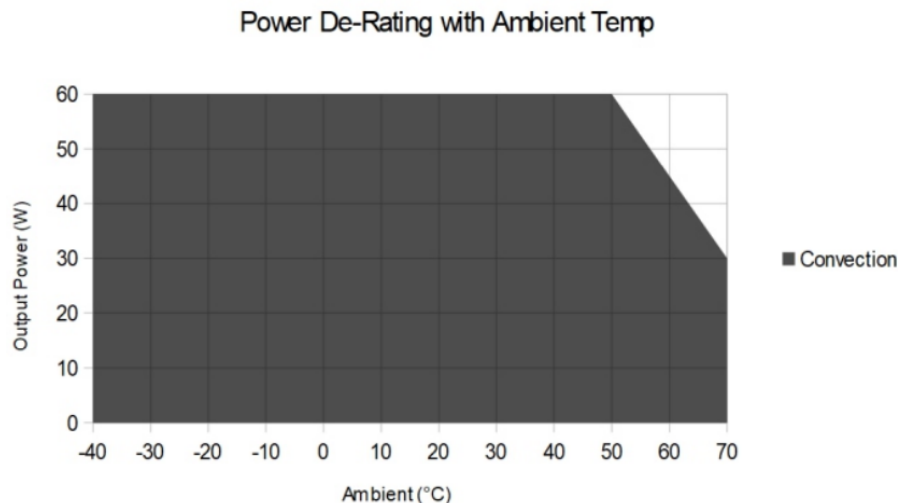
■ Technical Data(cont.)

Overload Protection	>110% of rated output current; Hiccup type; Auto recovery
Short Circuit Protection	Hiccup/Auto-Recovery
Over Temperature Protection	The power supply shuts down when the temperature of PCB below main transformer reaches typically 120°C; Turns on only after the temperature falls below 90°C typically and AC power is recycled thereafter.
Operating Temperature	-40°C to +70°C; De-rate linearly above 50°C from 100% load at 50°C to 50% load at 70°C. Note: Only start-up guaranteed at -40°C with spec deterioration
Storage Temp	-40°C to +85°C
Cooling	Natural convection cooled
Humidity	5 to 95% RH, Noncondensing
Altitude	2000m
Vibration	Component : 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
Dimension	Overall: 4"x 2"x1.16" (LxWxH); Height above PCB : 1"
Weight	<150g
Mounting	Open Frame

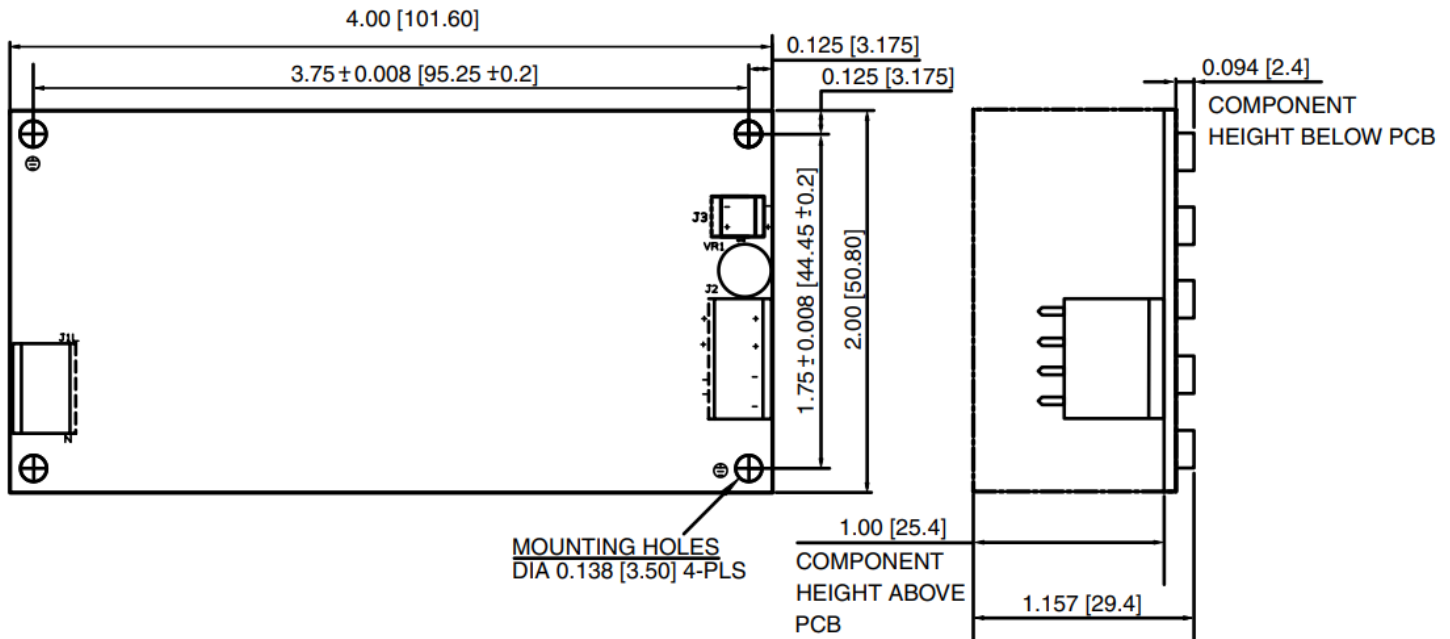
■ Safety and EMC Approval

Safety Standards	Designed to meet IEC/ UL 62368-1 and IEC/ EN 60601-1.
Class II Option (No Earth)	Available
Dielectric Withstand Voltage	I/P to Earth : 1500Vac, I/P to O/P : 4000Vac, O/P to Earth : 1500Vac
Conducted Emission	CISPR22; Class B
Radiated Emission	CISPR22; Class A

■ De-rating Curve

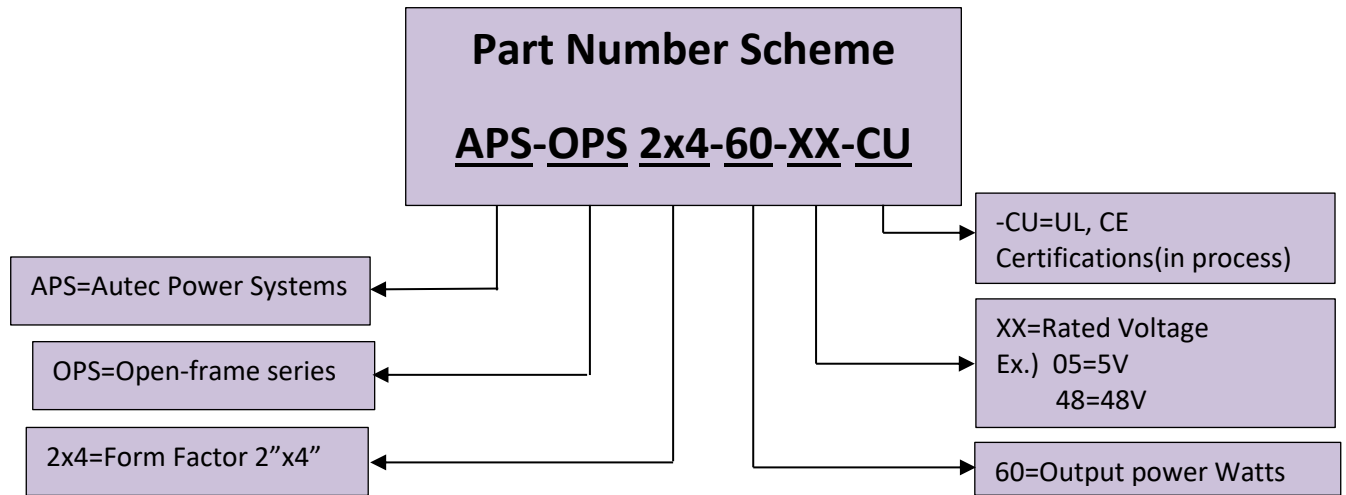


■ Mechanical Diagram



■ Connector Types & PIN Assignments

Ref Des	Description	Type P	Pin Number	Function
J1	Input AC connector	Tyco: 26-60-4030;	1	AC Neutral
		Mates with 09-50-3031;	2	Not connected
		Pin: 08-50-0106	3	AC Live
J2	Output DC connector	Tyco: 26-60-4040;	1,2	V1 negative
		Mates with 09-50-3041;		
		Pin: 08-50-0106	3,4	V1 positive
J3	Earth	Molex: 19705-4301	-	Earth
		Mates with 19003-0001		



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*Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.