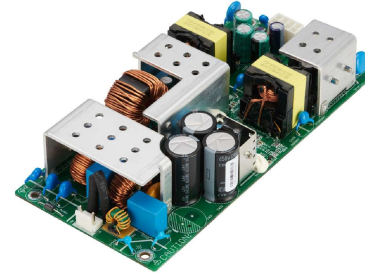




**FEATURES**

- 3.54" x 7.48" x 1.38" Open Frame
- Isolated 54.5V & 12V DC Outputs for PoE Networking
- 1.5K VAC Isolation Between Protective Earth and Return
- High Altitude Operation Up to 5,000 Meters
- Up to +70°C Operation Temperature
- PFC Function Built-In



**INPUT SPECIFICATIONS**

Input Voltage Range ..... 90~264 VAC  
 Input Frequency ..... 47~63 Hz  
 Input Current ..... 7.2A rms max. @ 115 VAC,  
 3.5A rms max. @ 230 VAC  
 Inrush Current ..... 60A max. @ 230 VAC, at 25°C cold start  
 Touch Current ..... 250 µA max. @ 264 VAC, 63 Hz  
 Earth Leakage Current ..... 1,500 µA max. @ 264 VAC, 63 Hz

**OUTPUT SPECIFICATIONS**

Output Power Ratings ..... See chart  
 Line Regulation ..... ±1% max. @ full load  
 Load Regulation ..... ±3% max.  
 Ripple and Noise\* ..... 1% Vp-p max. of output @ full load  
 Over Voltage Protection ..... Set at 110~135% of nominal output voltage; Latch off  
 Over Current Protection ..... Shut down, Auto-recovery  
 Short Circuit Protection ..... Shut down, Auto-recovery  
 Over Temp. Protection ..... Shut down, Auto-recovery  
 Temperature Coefficient ..... ±0.04%/°C max.  
 Transient Response ..... Maximum excursion of 5% or better on all models, recovering to 1% of final value within 500us after a 25% step load change

\* Measured with 20MHz bandwidth at nominal line voltage and full load, with a 10µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor in parallel across the output.

**GENERAL SPECIFICATIONS**

Power Factor ..... 0.98 min. @ full load, 115 VAC,  
 0.95 min. @ full load, 230 VAC  
 Efficiency ..... 89% min.  
 Power On Time ..... 2 sec. max.  
 Hold-Up Time ..... 16 ms min. @ 115 VAC  
 Operating Altitude ..... 5,000 meters max.  
 Operating Temperature ..... -20°C to +70°C  
 Derating ..... Derate from 100% at +50°C linearly to 50% at +70°C  
 Cooling ..... 19 CFM provided by user required  
 Storage Temperature ..... -40°C to +85°C  
 Relative Humidity ..... 5% to 95%, non-condensing  
 Withstand Voltage ..... 3,000 VAC, input to output  
 1,500 VAC, input to ground  
 1,500 VAC, output to ground  
 MTBF ..... 500,000 hours minimum at full load, 25°C ambient, calculated per Telcordia SR-332

**MODELS LIST**

Product No.	Output Voltage	Minimum Load	Maximum Load (7 CFM)	Ripple & Noise	Maximum Output Power
TNP550-5412	12V	0.5A	12.5A	240mV	550W
	54.5V	0.02A	7.4A	500mV	

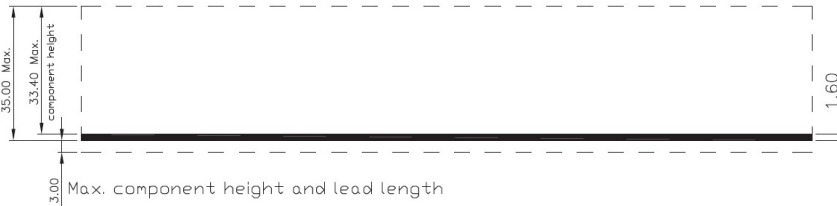
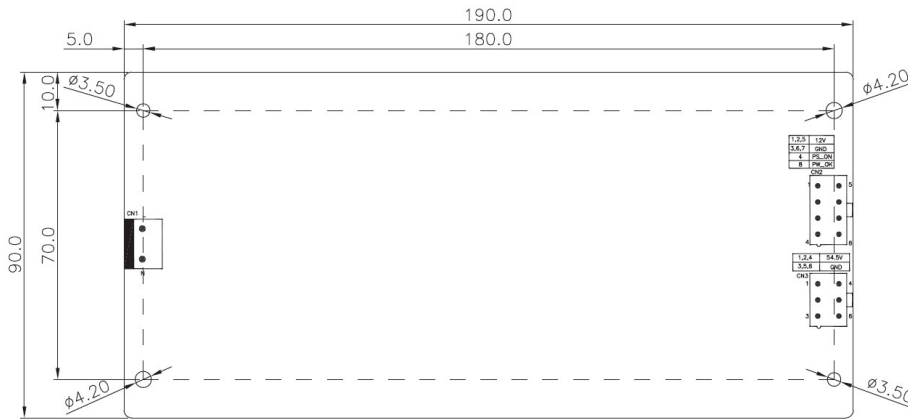
**Note:**

1) Output voltage tolerance is measured at connector terminal.

**STANDARDS & COMPLIANCE**

EN 55032 ..... Class B, conducted & radiated  
 FCC, VCCI ..... Class B, conducted & radiated  
 EN 61000-3-2 ..... Harmonic distortion, Class A  
 EN 61000-3-3 ..... Line flicker  
 EN 61000-4-2 ..... ESD, ±15 KV air and ±8 KV contact  
 EN 61000-4-3 ..... Radiated immunity, 3 V/m  
 EN 61000-4-4 ..... Fast transient/burst, ±2 KV  
 EN 61000-4-5 ..... Surge, ±2 KV diff., ±4 KV com.  
 EN 61000-4-6 ..... Conducted immunity, 3 Vrms  
 EN 61000-4-8 ..... Magnetic field immunity, 3 A/m  
 EN 61000-4-11 ..... Voltage dip immunity,  
 30% reduction for 500ms,  
 >95% reduction for 10ms,  
 >95% reduction for 5,000 mS  
 Safety Standards ..... IEC/UL 62368-1  
 Agency Approvals ..... UL, cUL, CB

### MECHANICAL SPECIFICATIONS



INPUT CONNECTOR (CN1)	
PIN	FUNCTION
1	NEUTRAL
2	N.C.
3	LINE

OUTPUT CONNECTOR (CN2)	
PIN	FUNCTION
1, 2, 5	+12V
3, 6, 7	RETURN
4	PS_ON
8	PW_OK

OUTPUT CONNECTOR (CN3)	
PIN	FUNCTION
1, 2, 4	+54.5V
3, 5, 6	RETURN

#### Notes:

1. Unit: mm
2. Weight: 410 grams (0.90 lbs.) approx.
3. Dimensions (L\*W\*H): 19.05 \* 10.16 \* 3.5 cm (7.5 \* 4 \* 1.38 in.)
4. Input Connector (CN1): JWT A3963WV2-3P or equivalent.
5. Output Connector (CN2): JWT C420WV0-2\*4P or equivalent.
6. Output Connector (CN3): JWT C4201WV0-2\*3P or equivalent.
7. To ensure compliance with Level B emissions, connect the three PCB mounting holes with metallic standoffs to the chassis.