

FEATURES

- Smallest 320W with 1U Height Power Density: 8.9 Watts/cu in
- Low Leakage Current 500uA @ 240VAC / 300uA @ 120VAC
- Power Factor Corrected to EN61000-3-2 Class A
- Peak Power 700W within 500uS Duty Duration
- Approved to UL CUL TUV CB and CE
- AC Input Range Auto-Selectable
- Output Voltages from 2 ~ 60VDC
- 4 Mechanical Options
- 2 Year Warranty



C Type: 6(L) x 4(W) x 1.55(H) inches.



E Type: 7(L) x 4(W) x 1.6(H) inches





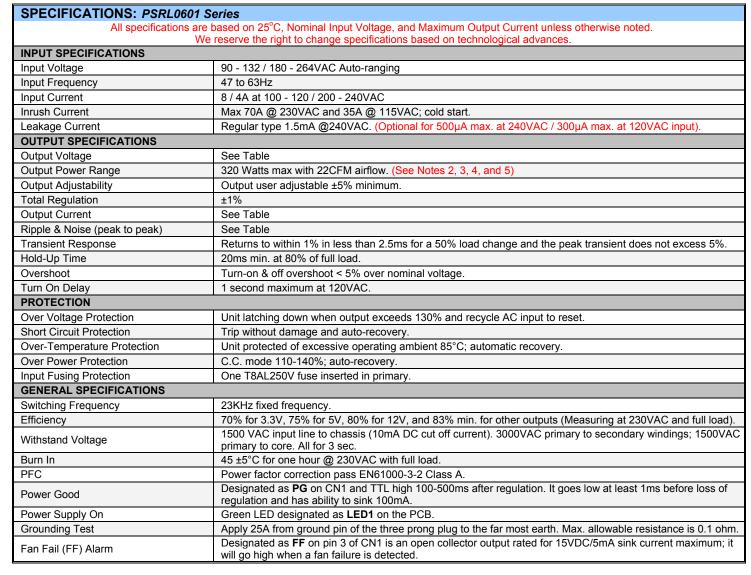
F Type: 6(L) x 4(W) x 2(H)inches













SPECIFICATIONS (CONT	TINIIED)				
SPECIFICATIONS (CONTINUED) ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	0°C to +70°C ambient, de-rating at 2.5% per degree from 50°C to 70°C.				
Storage Temperature	-20°C to +85°C				
Operating Humidity	5% to 90% RH, non-condensing				
Storage Humidity	5% to 95% RH, non-condensing				
Vibration	5 ~ 50Hz, acceleration 7.35 m/(s x s) on X, Y, and Z axis.				
Cooling	U Type (U-Chassis): 320W max with 22CFM forced airflow or 180W under convection cooling. C Type (U-Chassis with top cover): 170W max convection cooling. E Type (Enclosed with rear side built-in fan): 320W max. F Type (Enclosed with top built-in fan): 320W max.				
Fan Drive	12VDC/400mA is available to drive an external fan.				
MTBF	100,000 hours (according to MIL-HBK-217F) at 30°C.				
PHYSICAL SPECIFICATIONS					
Weight	U Type (U-Chassis): 600g C Type (U-Chassis with top cover): 650g E Type (Enclosed with rear side built-in fan): 750g F Type (Enclosed with top built-in fan): 800g				
Dimensions	U Type (U-Chassis): 6(L) x 4(W) x 1.5(H) inches. C Type (U-Chassis with top cover): 6(L) x 4(W) x 1.55(H) E Type (Enclosed with rear side built-in fan): 7(L) x 4(W) x 1.6(H) F Type (Enclosed with top built-in fan): 6(L) x 4(W) x 2(H) inches.				
Warranty	2 years				
SAFETY					
EMC Standards	CISPR 22 / EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN55024 CE Marked (LVD).				
Safety Regulations	Approved to UL60950-1, CSA C22.2 No. 60950-1, TUV EN60950-1, and CB certificate available.				

OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage Range	Preset Voltage	Max. Output Current or Power				Ripple &
			Type U (Convection)	Type C (Convection)	Types E, F, and U (forced air)	Regulation	Noise
PSRL0601x-05	2 – 5.5 VDC	5 VDC	27.28A	25A	45A	±1%	50mV
PSRL0601x-09	6 – 11 VDC	9 VDC	16.37A	13.64A	29.1A	±1%	±1%
PSRL0601x-12	12 – 13.5 VDC	12 VDC	180W	170W	320W	±1%	±1%
PSRL0601x-15	13.6 – 15 VDC	15 VDC	180W	170W	320W	±1%	±1%
PSRL0601x-18	16 – 20 VDC	18 VDC	180W	170W	320W	±1%	±1%
PSRL0601x-24	21 – 26 VDC	24 VDC	180W	170W	320W	±1%	±1%
PSRL0601x-28	27 – 34 VDC	28 VDC	180W	170W	320W	±1%	±1%
PSRL0601x-36	35 – 42 VDC	36 VDC	180W	170W	320W	±1%	±1%
PSRL0601x-48	43 – 50 VDC	48 VDC	180W	170W	320W	±1%	±1%
PSRL0601x-54	51 – 60 VDC	54 VDC	180W	170W	320W	±1%	±1%

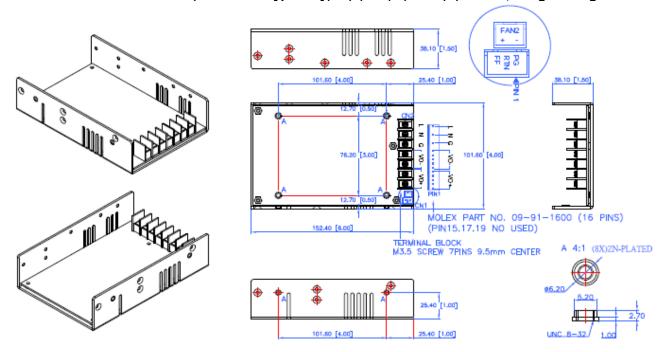
NOTES

- 1. PSRL0601 Series is designated as PSRL0601x-y where x can be **U** (U-chassis), **C** (U-chassis with top cover) **E** (Enclosed type with rear side built-in fan) or **F** (Enclosed type with top side built-in fan), y can be 05, 09, 12, 15, 18, 24, 28, 36, 48, 54 for output voltage.
- 2. PSRL0601U Series: U-Chassis @ 320W max. with 22CFM max. forced airflow or 180W convection cooled output.
- 3. PSRL0601C Series: U-Chassis @ 170W max convection cooled.
- 4. PSRL0601E Series: Enclosed with rear side built-in fan @ 320W max.
- 5. PSRL0601F Series: Enclosed with top built-in fan @ 320W max.
- 6. Ripple and noise is measured from 10KHZ to 20MHz bandwidth at output with parallel 0.1µF ceramic and 22µF electrolytic capacitors.
- 7. Providing peak power to 700W within 500uS for all models, longer duty duration must contact manufacturer.
- 8. All output ranges are covered in agency certifications and the preset voltage will be set as standard models if nothing different is requested. If desired preset output does not appear, please contact us.
- 9. 1% minimum load is required to maintain the ripple and regulation.
- 10. Output is fully isolated

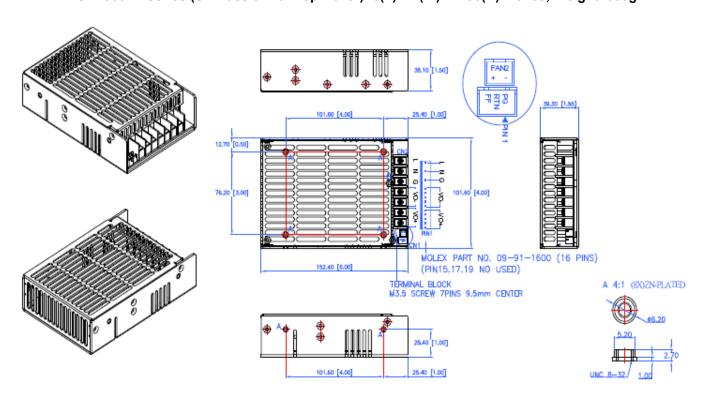


MECHANICAL DRAWINGS

PSRL0601U Series (U-Chassis Type only): 6(L) x 4(W) x 1.5(H) inches; Weight: 600g

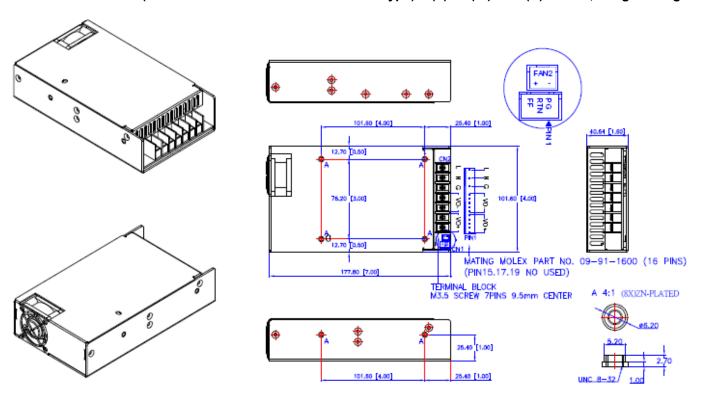


PSRL0601C Series (U-Chassis with Top Cover): 6(L) x 4(W) x 1.55(H) inches; Weight: 650g

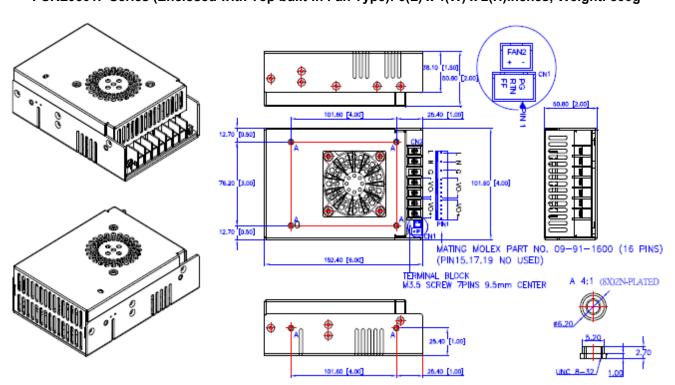




PSRL0601E Series (Enclosed with Rear Side built-in Fan Type): 7(L) x 4(W) x 1.6(H) inches; Weight: 750g



PSRL0601F Series (Enclosed with Top built-in Fan Type): 6(L) x 4(W) x 2(H)inches; Weight: 800g





I/O CONNECTOR PIN ASSIGNMENT

Input and Output Connector (CN2):

HowderTerminal block Part No. HB-95-7P or Mating Molex Part No. 09-91-1600 (16 pin).

Output Pin Assignment:

(See table below).

<u>Logic signal connector (CN1):</u> Mating JST XHP-3 or equivalent (CHYAO SHIUNN JS-2001-03); Mating Pins: ST SXH-002T-P0.6 FOR AWG 30 to 26.

Mounting Inserts: 8 Places M4X0.7 (8-32 Optional). Maximum Penetration 4mm sees outline drawing for location.

<u>Fan driver connector (FAN2):</u> Mating connector is a Molex P/N 22-01-1022 (2 pins 0.98 pitch) or equivalent with Series 2759 or 5159 terminals.

OUTPUT PIN ASSIGNMENT				
Howder	Molex			
Pins 1 ~ 2: V+	Pins 1 ~ 5: V+			
Pins 3 ~ 4: V-	Pins 6 ~ 10: V-			
Pin 5: GND	Pin 12: GND			
Pin 6: Neutral	Pin 14: Neutral			
Pin 7: Line	Pin 16: Line			