



FEATURES

- 1.5" x 4" Footprint
- Class II with 2 MOPP
- 5V to 40V Output Voltages
- 3,000 Meters Operating Altitude
- 0.5W No Load Power Consumption
- UL, cUL, TUV, FCC, CB & CE Approvals



INPUT SPECIFICATIONS

Input Voltage Range 80-275 VAC
 Input Frequency 47-63 Hz
 Input Current 0.8A rms max. @ 100 VAC,
 0.4A rms max. @ 240 VAC
 Inrush Current 25A @ 100 VAC or 50A
 @ 240 VAC, at 25°C cold start
 No Load Power Consumption... 0.5W max.

OUTPUT SPECIFICATIONS

Output Power Ratings See models list
 Minimum Load Not required
 Line Regulation ±1% max. @ full load
 Total Regulation See models list
 Ripple & Noise See models list
 Overload Protection Set at 110-150% of its nominal
 output voltage; Auto recovery
 Short Circuit Protection Auto recovery
 Temperature Coefficient ±0.04%/°C max.
 Transient Response..... 4ms @ 110 VAC, full load

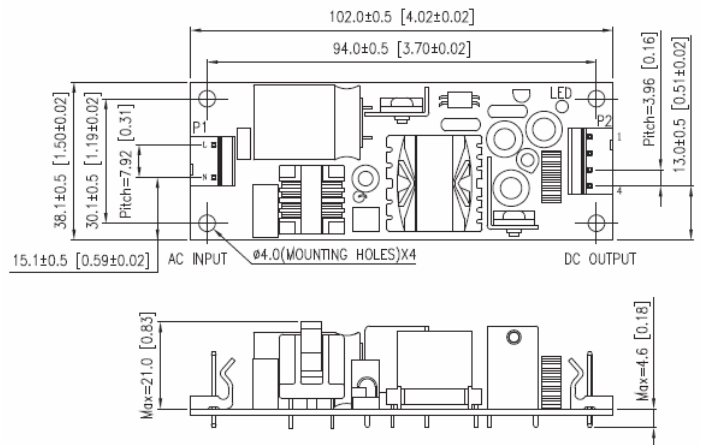
GENERAL SPECIFICATIONS

Efficiency See models list
 Switching Frequency 65 kHz typ.
 Power Factor 0.65 typ.
 Hold-up Time 12ms max. @ 100 VAC, full load
 Start-up Time 0.5 secs. max. @ full load
 Operating Temperature -10°C to +70°C
 Storage Temperature -40°C to +85°C
 Operating Humidity 0% to 95% non-condensing
 Storage Humidity 0% to 95% non-condensing
 Derating Derate from 100% at +40°C
 linearly to 50% at +70°C
 Withstand Voltage 4,000 VAC input-output
 Operating Altitude 3,000 meters max.
 MTBF 100 kHrs minimum at full load,
 25°C ambient, calculated per
 MIL-HDBK-217F

STANDARDS & COMPLIANCES

IEC/EN 60601-1-2 EMC & Immunity Performance
 EN 55011, CISPR11, FCC .. Class B, conducted & radiated
 EN 61000-3-2 Harmonic distortion, Class B & D
 EN 61000-3-3 Line flicker
 EN 61000-4-2 ESD, ±15 KV air and ±8 KV contact
 EN 61000-4-3 Radiated immunity, 3V/m
 EN 61000-4-4 Fast transient/burst, ±2 KV
 EN 61000-4-5 Surge, ±1 KV diff., ±2 KV com.
 EN 61000-4-6 Conducted immunity, 3 Vrms
 EN 61000-4-8 Magnetic field immunity, 3A/m
 EN 61000-4-11 Voltage dips,
 30% reduction for 500ms,
 60% reduction for 100ms,
 >95% reduction for 10ms
 Safety Standards IEC/EN 60601-1 3rd Edition,
 ANSI/AAMI ES 60601-1:2005,
 CSA C22.2 No. 60601-1:14
 Agency Approvals UL, cUL, TUV, FCC, CE, CB
 Other Compliances RoHS2

MECHANICAL SPECIFICATIONS



OUTPUT CONNECTOR (P2)	
PIN	FUNCTION
1	+V
2	+V
3	RETURN
4	RETURN

- Notes:**
1. Unit: inch [mm]
 2. Tolerance: 0.02 [0.5] max.
 3. Weight: 85g (0.19 lbs) approx.
 4. Input Connector: Mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
 5. Output Connector: Mates with Molex housing 09-50-3041 and Molex 2478 series crimp terminal.

MODELS LIST

Product No. ⁽¹⁾	Output Voltage ⁽¹⁾	Max. Output Current	Max. Output Power	Ripple & Noise ⁽²⁾ (Vp-p Max.)	Total Regulation	Efficiency (Typ.)
THM30-5	5V	4A	20W	50mV	±5%	74%
THM30-7	7V	3.29A	23W	70mV	±5%	75%
THM30-9	9V	3A	27W	90mV	±5%	79%
THM30-12	12V	2.5A	30W	100mV	±5%	83%
THM30-15	15V	2A	30W	100mV	±5%	84%
THM30-18	18V	1.67A	30W	100mV	±5%	85%
THM30-24	24V	1.25A	30W	100mV	±3%	86%
THM30-30	30V	1A	30W	100mV	±3%	86%
THM30-36	36V	0.83A	30W	100mV	±3%	86%

Notes:

1. Specify the output voltage, within 5V to 40V, when ordering non-standard output models, e.g. THM30-16 for 16V output.
2. Ripple & Noise are measured with 20MHz bandwidth at nominal line and rated output load ranges, with a 0.47µF capacitor connected across the output.