

AC/DC Din Rail Mount

45-240 Watts THF Series

XPiQ inc.

Intelligent Design Quality Product



- Wide Adjustment Range
- Rugged For Industrial Use
- High Efficiency
- Overvoltage Protection
- Overcurrent Protection
- Overtemperature Protection
- Lightweight Design

Specification

Input

- Input Voltage**
 - 85-264 VAC (120 W model 88-132 VAC/176-264 VAC switch selectable)
- Input Frequency**
 - 47-63 Hz
- Inrush Current**
 - 60 A max
- Input Current**
 - 115 VAC - 3.5 A max
 - 230 VAC - 1.8 A max
- Earth Leakage**
 - <1.0 mA at 240 VAC max (45-75 W)
 - <3.5 mA at 240 VAC max (120-240 W)

Output

- Output Voltage**
 - See Tables
- Output Voltage Tol**
 - $\pm 2\%$ max
- Output Voltage Adjustment**
 - $\pm 10\%$
- Line Regulation**
 - $\pm 1\%$ max
- Load Regulation**
 - $\pm 1\%$ max
- Ripple & Noise**
 - See Table
- Overload Protection**
 - 105-150% constant current
- Overvoltage Protection**
 - 125% typical
- Temperature Coefficient**
 - $\pm 0.03\%/^{\circ}\text{C}$

General

- Efficiency**
 - 72%-85% (depending on model)
- Isolation**
 - Input-Output 3000 VAC
 - Input-Earth 1500 VAC
 - Output-Earth 500 VAC

Environmental

- Operating Temperature**
 - See Derating Curves
- Storage Temperature**
 - -20°C to $+85^{\circ}\text{C}$
- Relative Humidity**
 - 90% RH max
- Weight**
 - 1.1 kg max

EMC & Safety

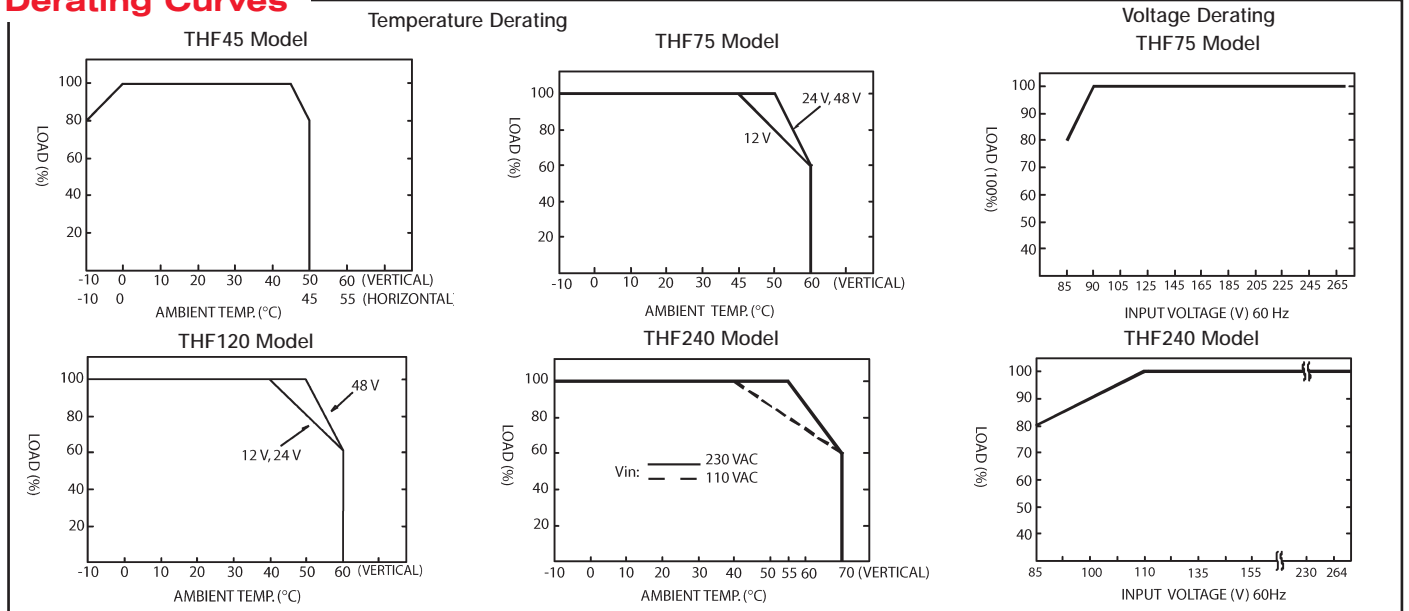
- EMC**
 - EN55022 'B', EN6000-4-2, 3, 4, 5, 6, 8, 11 ENV50204, EN61000-3-2, -3 EN50082-2
- Safety**
 - TUV EN60950, UL508 approved

OUTPUT VOLTAGE & CURRENT RATINGS

THF

Output Power Maximum	Output Voltage Nominal	Output Current Maximum	Ripple & Noise	Model Number
25 W	5.0 V	5.0 A	100 mV	THF45US05
42 W	12.0 V	3.5 A	200 mV	THF45US12
42 W	15.0 V	2.8 A	240 mV	THF45US15
48 W	24.0 V	2.0 A	480 mV	THF45US24
76 W	12.0 V	6.3 A	100 mV	THF75US12
77 W	24.0 V	3.2 A	150 mV	THF75US24
77 W	48.0 V	1.6 A	240 mV	THF75US48
120 W	12.0 V	10.0 A	80 mV	THF120LS12
120 W	24.0 V	5.0 A	80 mV	THF120LS24
120 W	48.0 V	2.5 A	100 mV	THF120LS48
240 W	24.0 V	10.0 A	80 mV	THF240PS24
240 W	48.0 V	5.0 A	150 mV	THF240PS48

Derating Curves



Mechanical Details

