

PKQ75

S E R I E S

50 - 75 WATT 1/4 BRICK DC-DC CONVERTERS



Features

- 50-75W Isolated Output
- Efficiency to 90%
- Quarter Brick Package
- 1500VDC Isolation
- Regulated Outputs
- Continuous Short Circuit Protection
- Open Frame Design is Available

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	SIZE
				NO LOAD	FULL LOAD		
PKQ75-24S18	18-36 VDC	1.8 VDC	0.5 - 25A	60 mA	2259 mA	83	Quarter-Brick
PKQ75-24S25	18-36 VDC	2.5 VDC	0.5 - 25A	60 mA	3064 mA	85	Quarter-Brick
PKQ75-24S33	18-36 VDC	3.3 VDC	0.5 - 20A	70 mA	3125 mA	88	Quarter-Brick
PKQ75-24S05	18-36 VDC	5 VDC	0.5 - 15A	80 mA	3472 mA	90	Quarter-Brick
PKQ75-48S18	36-75 VDC	1.8 VDC	0.5 - 25A	50 mA	1116 mA	84	Quarter-Brick
PKQ75-48S25	36-75 VDC	2.5 VDC	0.5 - 25A	50 mA	1514 mA	86	Quarter-Brick
PKQ75-48S33	36-75 VDC	3.3 VDC	0.5 - 20A	50 mA	1563 mA	88	Quarter-Brick
PKQ75-48S05	36-75 VDC	5 VDC	0.5 - 15A	80 mA	1736 mA	90	Quarter-Brick

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

Specifications

INPUT SPECIFICATIONS:
 Input Voltage Range.....24V.....18-36V
 48V.....36-75V
 Undervoltage lockout24Vin power up.....17V
 power down15.5V
 48Vin power up34V
 power down32.5V
 Positive Logic Remote ON/OFF^{3,4}
 Input FilterPI Type

OUTPUT SPECIFICATIONS:
 Voltage Accuracy :±1% max.
 Transient Response :75% - 100% Step Load Change
 Error Band.....±5% Vout
 Recover Time.....<500µs
 External Trim Adj. Range±10%
 Ripple & Noise, 20MHz BW.....40mV RMS., max.
 100mV pk-pk, max.
 Temperature Coefficient.....±0.03%/°C
 Short Circuit Protection.....Continuous
 Line Regulation¹±0.2% max.
 Load Regulation²±0.2% max.
 Over Voltage Protection trip Range, % Vo nom.....115-140%
 Current Limit110% ~140% Nominal Output

GENERAL SPECIFICATIONS:
 Efficiency.....See Table
 Isolation VoltageInput/Output.....1500VDC min.
 Input/Case.....1500VDC min.
 Output/Case.....1500VDC min.
 Isolation Resistance10⁷ ohm min.
 Switching Frequency300KHz, Typ.
 Operating Case Temperature-40°C to 100°C
 Storage Temperature-40°C to +105°C
 Thermal Shutdown, Case Temp.100°C Typ.
 Dimensions1.45x2.28x0.50 inches
 (36.8x57.9x12.7 mm)
 Case Material (Standard).....Aluminum Baseplate with Plastic Case
 (Suffix "O" Type).....Open Frame
 Weight.....61.8g

PIN CONNECTION

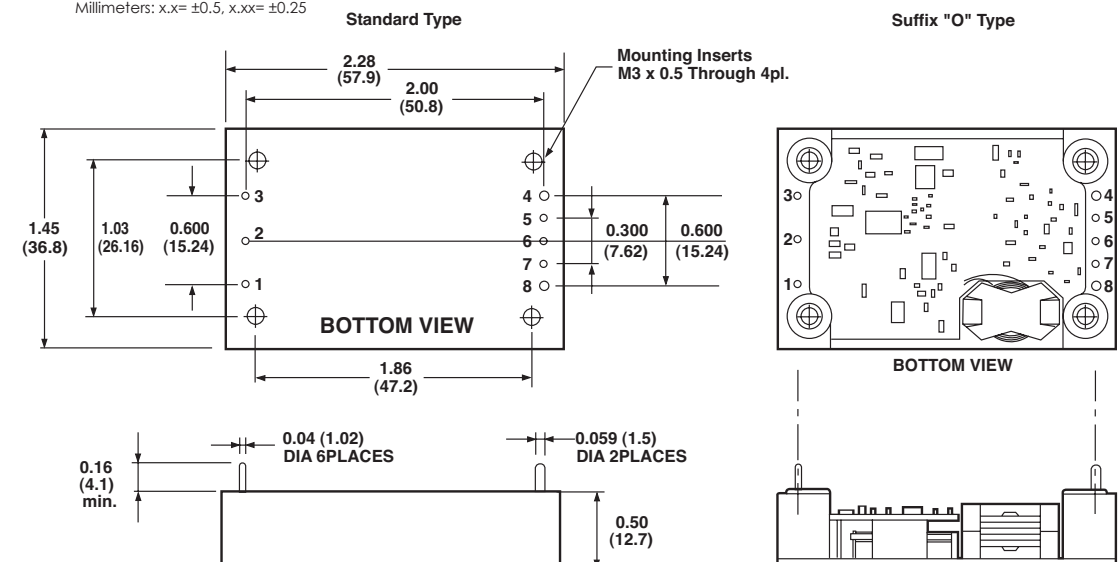
Pin	Function
1	+V Input
2	ON/OFF
3	-V Input
4	-V Output
5	-Sense
6	Trim
7	+Sense
8	+Vout

NOTE:

1. Measured From High Line to Low Line.
2. Measured From Io min. to Io max.
3. Logic Compatibility Open Collector ref. to -Input.
 Module ONOpen Circuit
 Module OFF.....<0.8Vdc
4. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF.
5. Suffix "O" to the Model Number with Open Frame Type.

CASE QB

All Dimensions In Inches(mm)
 Tolerance Inches: x.xx= ±0.02, x.xxx= ±0.010
 Millimeters: x.x= ±0.5, x.xx= ±0.25



All Specifications Typical At Nominal Line, Full Load and 25°C Unless Otherwise Noted.