

# PKQ Series

50-75 WATTS - DC/DC SINGLE OUTPUT

DC-DC PCB MOUNTED CONVERTERS & POWER MODULES

## FEATURES

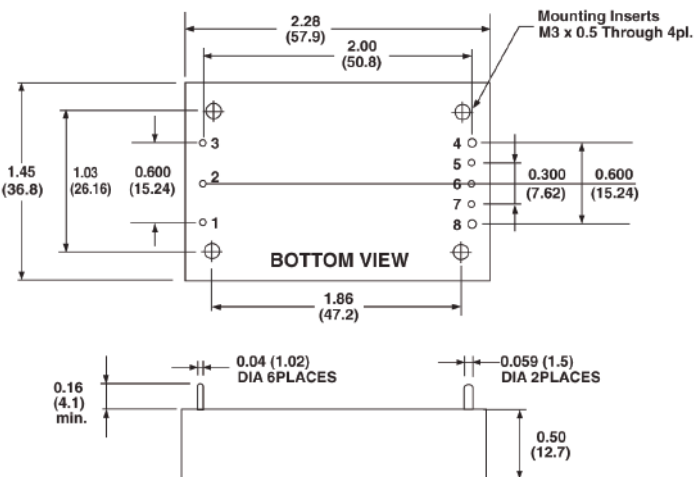
- Isolated Output
- Quarter Brick Package
- 2 : 1 Input Range
- Regulated Outputs
- Five-Sided Shield Metal Case
- Continuous Short Circuit Protection
- Efficiency up to 90%



## SPECIFICATIONS

INPUT		
Voltage range	24V	18-36V
	48V	36-75V
Under voltage lockout	24Vin power up	7V
	power down	5.5V
	48Vin power up	34V
	power down	32.5V
Remote On/Off control	ON/OFF pins 2 & 4, positive logic	
Input filter	Pi type	
Isolation	Input/Output	1500VDC min.
	Input/Case	1500VDC min.
	Output/Case	1500VDC min.
Isolation resistance	10 <sup>7</sup> ohm min	
OUTPUT		
Output voltage	See table	
Output current	See table	
Voltage accuracy	±1% max	
Transient response	75 to 100% Step Load Change	
Error band	±5%	
Recover Time	<500µ sec	
External Trim Adj. Range	±10%	
Ripple and noise	40mV RMS., max.	
	20MHz BW	

## MODULE OUT LINE



Temperature coefficient	±0.03%/°C
Short circuit protection	Continuous
Line Regulation 1	±0.2% max.
Load Regulation 2	±0.2% max.
Over Voltage Protection trip Range	115-140%, Vo nominal
Current Limit	110% ~140% Nominal Output
Efficiency	See table
Switching Frequency	300kHz, typ

## ENVIRONMENTAL

Operating temperature	-40°C to 100°C base plate
Storage temperature	-55°C to +105°C
Thermal Shutdown	100°C, case temperature

## MECHANICAL

Dimensions	36.8 x 57.9 x 12.7 mm
Weight	61.8g

## NOTE:

1. Measured From High Line to Low Line.
2. Measured From Full Load to Zero Load.
3. Logic Compatibility .... Open Collector ref, to -Input.  
Module ON .....Open 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.

## PIN CONNECTION

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

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## SELECTION TABLES

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT			SIZE
				NO LOAD	FULL LOAD	% EFF	
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:** Heatsink and cooling details contact Powerbox Sales