

# KDD25 SERIES

# DC-DC CONVERTER 21.5 ~ 25W



**KDD25 - 12 S 01**

WATTAGE

12 : 9~18V IN  
24 : 18~36V IN  
48 : 36~72V IN

1: 5V OUT  
2: 12V OUT  
3: 15V OUT  
5: 3.3V OUT

S : SINGLE OUTPUT

D : DUAL OUTPUT

## MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (MIN.)	CASE
<b>Single Output Models</b>						
KDD25 - 12S01	9~18 VDC	25 WATTS	+ 5 VDC	5000 mA	77%	B
KDD25 - 12S02	9~18 VDC	25 WATTS	+ 12 VDC	2100 mA	80%	B
KDD25 - 12S03	9~18 VDC	25 WATTS	+ 15 VDC	1700 mA	80%	B
KDD25 - 12S05	9~18 VDC	21.5 WATTS	+3.3 VDC	6500 mA	75%	B
KDD25 - 24S01	18~36 VDC	25 WATTS	+ 5 VDC	5000 mA	79%	B
KDD25 - 24S02	18~36 VDC	25 WATTS	+ 12 VDC	2100 mA	81%	B
KDD25 - 24S03	18~36 VDC	25 WATTS	+ 15 VDC	1700 mA	81%	B
KDD25 - 24S05	18~36 VDC	21.5 WATTS	+3.3 VDC	6500 mA	77%	B
KDD25 - 48S01	36~72 VDC	25 WATTS	+ 5 VDC	5000 mA	80%	B
KDD25 - 48S02	36~72 VDC	25 WATTS	+ 12 VDC	2100 mA	83%	B
KDD25 - 48S03	36~72 VDC	25 WATTS	+ 15 VDC	1700 mA	83%	B
KDD25 - 48S05	36~72 VDC	21.5 WATTS	+3.3 VDC	6500 mA	78%	B
<b>Dual Output Models</b>						
KDD25 - 12D01	9~18 VDC	25 WATTS	± 5 VDC	+4700/-300 mA	77%	B
KDD25 - 12D02	9~18 VDC	25 WATTS	± 12 VDC	+1800/-300 mA	80%	B
KDD25 - 12D03	9~18 VDC	25 WATTS	± 15 VDC	+1400/-300 mA	80%	B
KDD25 - 24D01	18~36 VDC	25 WATTS	± 5 VDC	+4700/-300 mA	79%	B
KDD25 - 24D02	18~36 VDC	25 WATTS	± 12 VDC	+1800/-300 mA	81%	B
KDD25 - 24D03	18~36 VDC	25 WATTS	± 15 VDC	+1400/-300 mA	81%	B
KDD25 - 48D01	36~72 VDC	25 WATTS	± 5 VDC	+4700/-300 mA	80%	B
KDD25 - 48D02	36~72 VDC	25 WATTS	± 12 VDC	+1800/-300 mA	83%	B
KDD25 - 48D03	36~72 VDC	25 WATTS	± 15 VDC	+1400/-300 mA	83%	B

## FEATURES

- \* 2:1 INPUT RANGE
- \* ISOLATION INPUT AND OUTPUT 1.5KV DC
- \* HIGH PERFORMANCE UP TO 84%
- \* SHORT CIRCUIT PROTECTION
- \* 2 YEARS WARRANTY



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## SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

### GENERAL SPECIFICATION

- \* Switching frequency: ..... 80KHz
- \* Isolation voltage: ..... 1,500VDC
- \* Isolation resistance: ..... 1G  $\Omega$ (min.)
- \* Operating ambient temperature: ..... -25 to +71°C
- \* Storage temperature: ..... -40 to +85°C
- \* Max. Case temperature: ..... 90°C
- \* M.T.B.F.: ..... 389,000Hrs at @ GF40, according to MIL-HDBK-217F
- \* Cooling: ..... Free air convection
- \* Temperature coefficient: .....  $\pm 0.02\%$  / °C
- \* Dimension: ..... 70 x 70 x 23mm

### INPUT SPECIFICATIONS

- \* Input voltage range / frequency: ..... 9 ~ 18VDC for 12V  
18 ~ 36VDC for 24V  
36 ~ 72VDC for 48V
- \* Input filter: ..... Pi type
- \* No load input current: ..... 35mA for 12V in  
30mA for 24V in  
25mA for 12V in
- \* Max. Input voltage: ..... 20VDC for 12V in  
40VDC for 24V in  
75VDC for 48V in

### OUTPUT SPECIFICATIONS

- \* Output voltage accuracy: .....  $\pm 1$  at  $V_{o\_nom}$
- \* Minimum load: ..... No load for single output models  
 $\pm 20\%$  at  $V_{o\_nom}$  for dual output models
- \* Line regulation: .....  $\pm 1\%$  at  $V_{o\_nom}$
- \* Load regulation: .....  $\pm 2\%$  at  $V_{o\_nom}$  for single output models  
 $\pm 5\%$  at  $V_{o\_nom}$  for dual output models
- \* Ripple & noise: .....  $V_{out} \times \pm 2\%$
- \* Efficiency: ..... Up to 83%, see model list
- \* Derating: ..... See table 1
- \* Case material: ..... Metal

### CONTROL AND PROTECTION

- \* Input reversed: ..... Shunt diode use external fuse
- \* Output short circuit: ..... Continuous

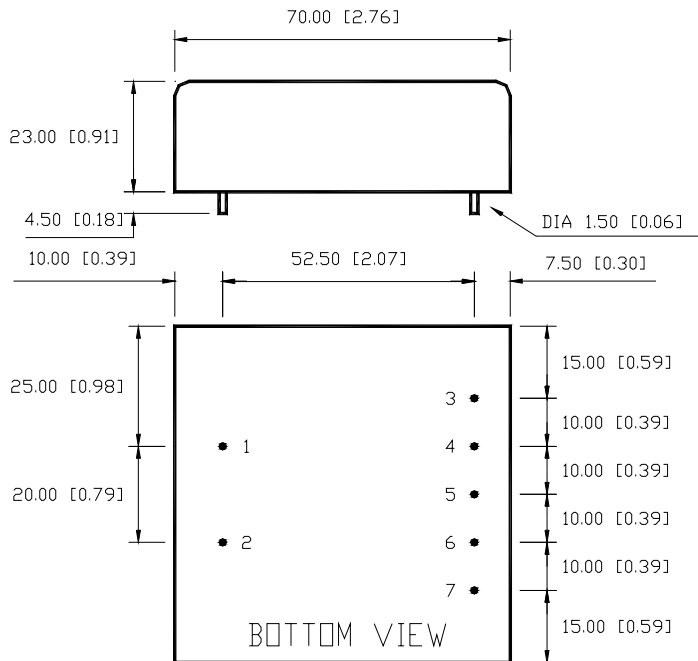


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## MECHANISM & PIN CONFIGURATION

mm [inch]



## PHYSICAL CHARACTERISTICS

CASE SIZE	70 x 70 x 23mm 2.76 x 2.76 x 0.91inches
CASE MATERIAL	Metal
WEIGHT	180 g

## PIN ASSIGNMENT

PIN NO.	1	2	3	4	5	6	7
SINGLE	Vi+	Vi-	Vo+	Vo+	Vo-	Vo-	N.C.
DUAL	Vi+	Vi-	Vo+	Vo+	com	com	Vo-

## Derating:

[TABLE 1]

