

DC DC CONVERTER

50W 2:1 Input Series

Nuteck Power Solutions P Ltd.
 1st Floor, 115/5, Ramtekdi Industrial Area,
 Hadapsar, Pune-411013.
 Tel : +91 26811162, Mob : +91 9552545012
 Email : info@nuteck.in
 Web : www.nuteckpowersolutions.com

50W DC DC Converter

• Features:

- Wide Input Supply Range
- Built in EMI filter, low ripple noise
- Protections: Short Circuit / Over load / Over voltage
- 100% Full Load Burn in test.
- High efficiency, long life and high reliability
- Miniature size



SPECIFICATION

MODEL		DA50-05	DA50-12	DA50-24	DA50-48	DB50-05	DB50-12	DB50-24	DB50-48
Output	DC Voltage	5V	12V	24V	48V	5V	12V	24V	48V
	Rated Current	10A	4.16A	2.08A	1A	10A	4.16A	2.08A	1A
	Current Range	0 ~ 10A	0 ~ 4.16A	0 ~ 2.08A	0 ~ 1A	0 ~ 10A	0 ~ 4.16A	0 ~ 2.08A	0 ~ 1A
	Rated Power	50W							
	Ripple and Noise Max.	< 1% Of Rated Voltage.							
	Voltage Adj. Range	+/- 10% Of Rated Voltage.							
	Voltage Tolerance	+/- 1% Of Rated Voltage.							
	Line Regulation	< +/- 0.5 %							
Load Regulation	< +/- 1 %								
Input	Voltage Range	9~18VDC				18~36VDC			
	Efficiency	>70%	>75%			>70%	>75%		
Protection	Over Load	Above 105% Rated output Power Protection Type: Constant Current, Recovers automatically after fault condition is removed.							
	Over Voltage	125% ~ 150% rated output voltage Protection Type: Hiccup Mode, Recovers automatically after fault condition is removed.							
	I/P reverse polarity	Provided by internal Fuse.							
Environment	Working Temp.	-5DegC to 55DegC.							
	Working Humidity	20 to 90%RH Non Condensing.							
	Storage Temp Humidity	-10 to 85DegC 10 to 95% RH.							
	Vibration	10 to 500Hz, 2G, 20min/sweep, period-1Hr, Each along X, Y, Z axes.							
Safety & EMC	Safety Standard	Designed to meet UL60950-1							
	Withstand Voltage	I/P-O/P : 1.5KVAC, I/P-Earth : 1.5KVAC, O/P-Earth : 500VDC.							
	Isolation Resistance	I/P-O/P, I/P-Earth, O/P-Earth : 100M Ohms / 500VDC.							
	EMI & EMC	Designed to meet EN55011 / EN55022, EN61000-4-2							
Others	Enclosure Protection	IP-20							
	Cooling	Natural Cooling.							
	Dimension (L*W*H)	168*96*52							
	Weight	0.65kg. Approx.							
Note	1. All parameters NOT specially mentioned are measured at Typical input, rated load and 25Deg.C. ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance : includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-conformed that it still meets EMC directives. 5. Specifications are subject to change without prior notice due to constant improvement in design & technology.								

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	Rated Current	10A	4.16A	2.08A	1A	10A	4.16A	2.08A	1A
	Current Range	0 ~ 10A	0 ~ 4.16A	0 ~ 2.08A	0 ~ 1A	0 ~ 10A	0 ~ 4.16A	0 ~ 2.08A	0 ~ 1A
	Rated Power	50W							
	Ripple and Noise Max.	< 1% Of Rated Voltage.							
	Voltage Adj. Range	+/- 10% Of Rated Voltage.							
	Voltage Tolerance	+/- 1% Of Rated Voltage.							
	Line Regulation	< +/- 0.5 %							
Load Regulation	< +/- 1 %								
Input	Voltage Range	36~72VDC				72~144VDC			
	Efficiency	>70%	>75%			>75%	>80%		
Protection	Over Load	Above 105% Rated output Power Protection Type: Constant Current, Recovers automatically after fault condition is removed.							
	Over Voltage	125% ~ 150% rated output voltage Protection Type: Hiccup Mode, Recovers automatically after fault condition is removed.							
	I/P reverse polarity	Provided by internal Fuse.							
Environment	Working Temp.	-5DegC to 55DegC.							
	Working Humidity	20 to 90%RH Non Condensing.							
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	Withstand Voltage	I/P-O/P : 1.5KVAC, I/P-Earth : 1.5KVAC, O/P-Earth : 500VDC.							
	Isolation Resistance	I/P-O/P, I/P-Earth, O/P-Earth : 100M Ohms / 500VDC.							
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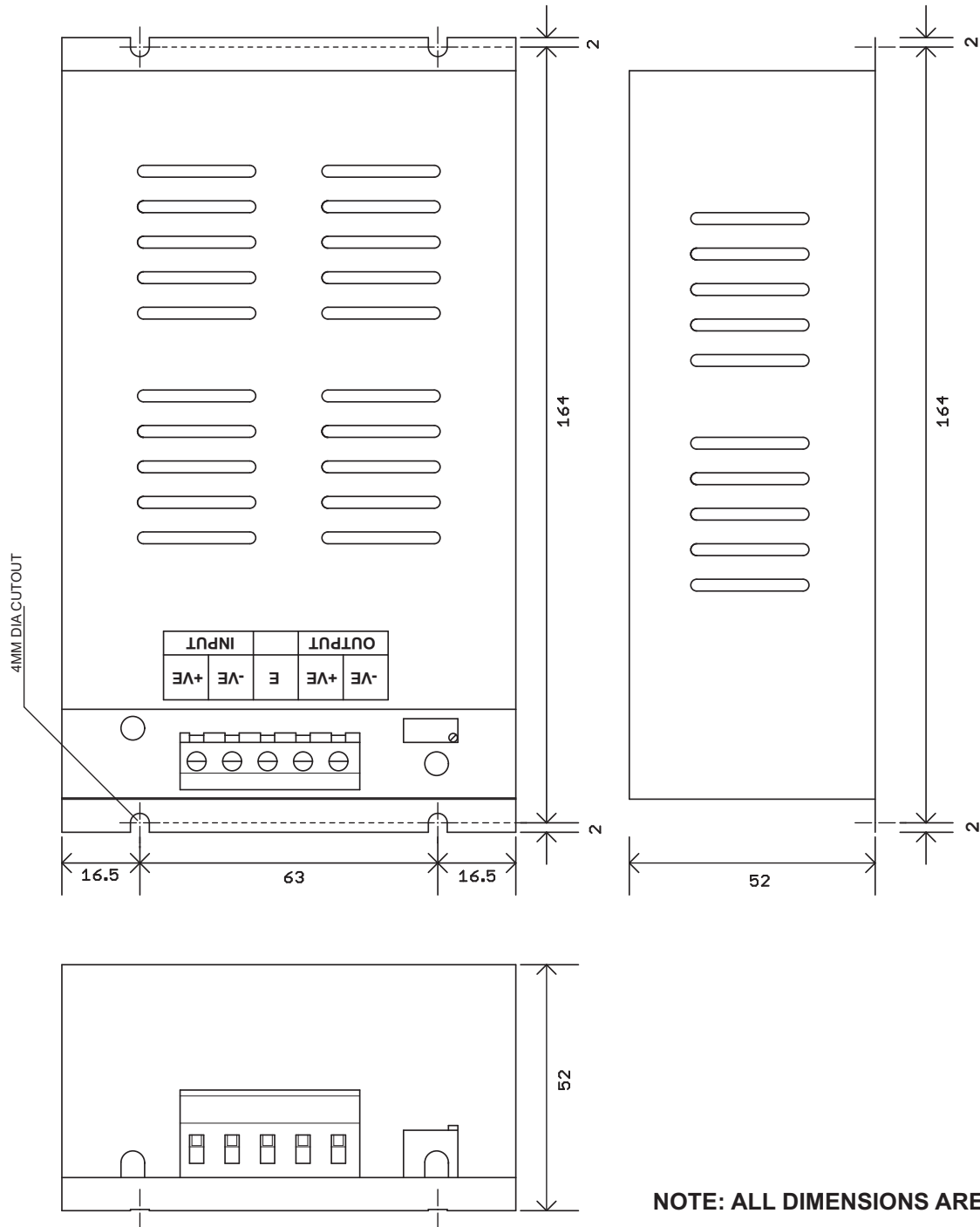
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DIMENSIONAL DETAILS



NOTE: ALL DIMENSIONS ARE IN MM