

# DATASHEET



## DC DC CONVERTER

### 36W 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.nuteck.in

## 36W DC DC Converter

- Features:
- 2:1 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	DA36-05	DA36-12	DA36-24	DA36-48	DB36-05	DB36-12	DB36-24	DB36-48	
Output	DC Voltage	5V	12V	24V	48V	5V	12V	24V	48V
	Rated Current	7.2A	3A	1.5A	0.75A	7.2A	3A	1.5A	0.75A
	Current Range	0 ~ 7.2A	0 ~ 3A	0 ~ 1.5A	0 ~ 0.75A	0 ~ 7.2A	0 ~ 3A	0 ~ 1.5A	0 ~ 0.75A
	Rated Power	36W							
	Ripple and Noise Max.	< 1% of Rate Voltage.							
	Voltage Adj. Range	+/- 10% of Rate Voltage.							
	Voltage Tolerance	+/- 1% of Rate 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% Rate output Power Protection Type: Constant Current, Recovers automatically after fault condition is removed.							
	Over Voltage	125% ~ 150% rate 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							
	Wit stand 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.								

SMPS | DC DC Converters | Adapters | PoE Injectors & Splitters | Battery Chargers | Battery Backup Systems  
 LED Drivers | OVP | AVR | Relay I/O Modules | Protection Relays | Surge Protectors | Inverters | Fan Controllers

# DATASHEET



## DC DC CONVERTER

### 36W 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.nuteck.in

## 36W DC DC Converter

- **Features:**
- 2:1 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		DC36-05	DC36-12	DC36-24	DC36-48	DD36-05	DD36-12	DD36-24	DD36-48
Output	DC Voltage	5V	12V	24V	48V	5V	12V	24V	48V
	Rated Current	7.2A	3A	1.5A	0.75A	7.2A	3A	1.5A	0.75A
	Current Range	0 ~ 7.2A	0 ~ 3A	0 ~ 1.5A	0 ~ 0.75A	0 ~ 7.2A	0 ~ 3A	0 ~ 1.5A	0 ~ 0.75A
	Rated Power	36W							
	Ripple and Noise Max.	< 1% of Rate Voltage.							
	Voltage Adj. Range	+/- 10% of Rate Voltage.							
	Voltage Tolerance	+/- 1% of Rate 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% Rate output Power Protection Type: Constant Current, Recovers automatically after fault condition is removed.							
	Over Voltage	125% ~ 150% rate 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, peroi -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.								

SMPS | DC DC Converters | Adapters | PoE Injectors & Splitters | Battery Chargers | Battery Backup Systems  
 LED Drivers | OVP | AVR | Relay I/O Modules | Protection Relays | Surge Protectors | Inverters | Fan Controllers

# DATASHEET



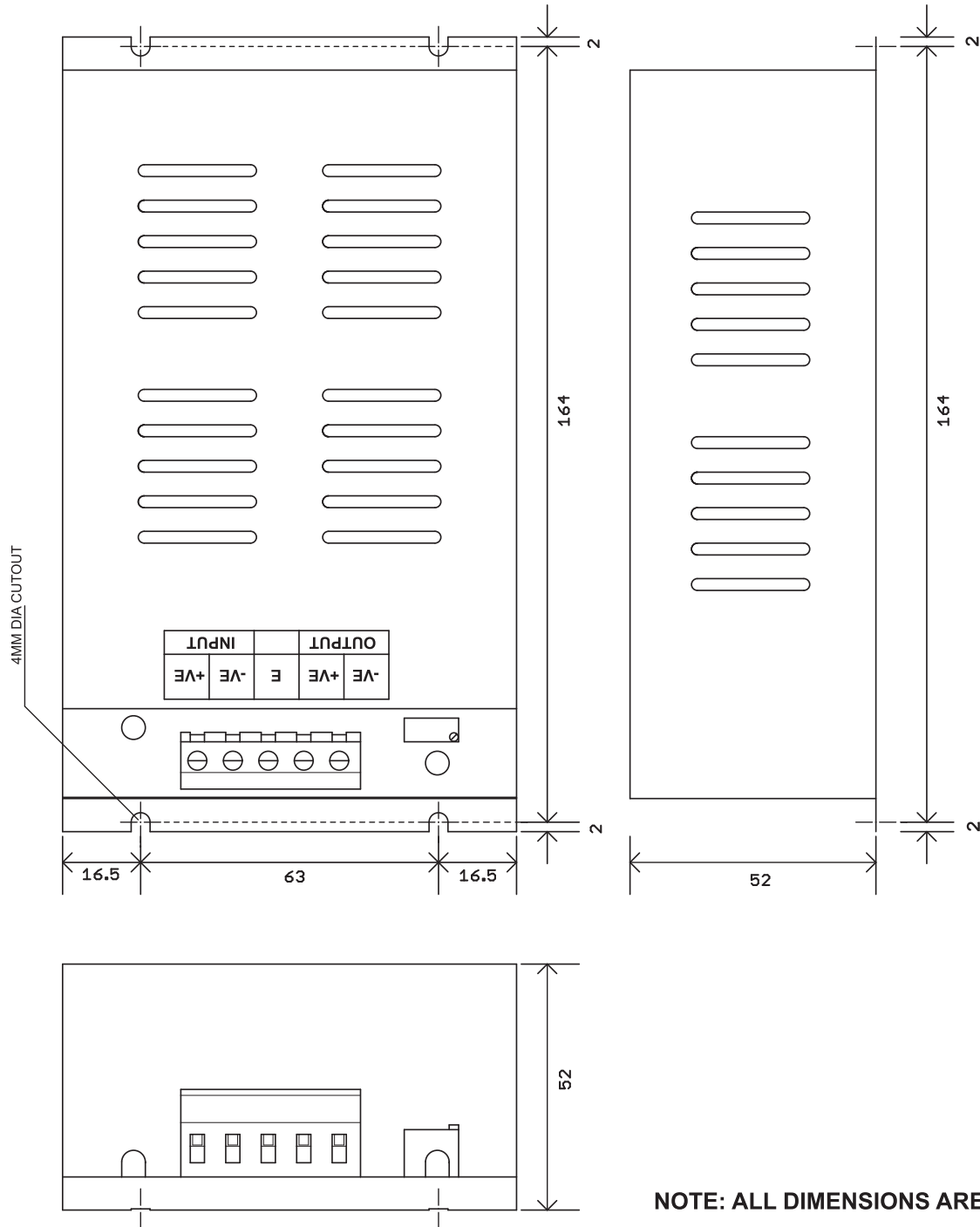
## DC DC CONVERTER

36W 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.nuteck.in

## 36W DC DC Converter

### DIMENSIONAL DETAILS



SMPS | DC DC Converters | Adapters | PoE Injectors & Splitters | Battery Chargers | Battery Backup Systems  
LED Drivers | OVP | AVR | Relay I/O Modules | Protection Relays | Surge Protectors | Inverters | Fan Controllers