

DC DC CONVERTER

120W 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
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120W DC DC Converter

- **Features:**
- 2:1 Wided Input Supply Range
- Built in EMI filter, low ripple noise
- Protections: Short Circuit / d / Overload / d / Over voltage
- 100% Full Load Burnd in test.
- High efficiency, d long life and d high reliability
- Miniature size



SPECIFICATION

| MODEL | | DB120-12 | DB120-24 | DB120-48 | DC120-12 | DC120-24 | DC120-48 |
|-----------------|--|---|----------|----------|----------|----------|----------|
| Output | DC Voltage | 12V | 24V | 48V | 12V | 24V | 48V |
| | Rated Current | 10A | 5A | 2.5A | 10A | 5A | 2.5A |
| | Current Range | 0 ~ 10A | 0 ~ 5A | 0 ~ 2.5A | 0 ~ 10A | 0 ~ 5A | 0 ~ 2.5A |
| | Rated Power | 120W | | | | | |
| | 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 | 18~36VDC | | | 36~72VDC | | |
| | Efficiency | >75% | | | >75% | | |
| Protection | Over Load | Above 105% Rate output Power Protection Type: Constant Current, Recovers automatically after fault condition is remove . | | | | | |
| | Over Voltage | 125% ~ 150% rate output voltage Protection Type: Hiccup Mode, Recovers automatically after fault condition is remove . | | | | | |
| | I/P reverse polarity | Provide by internal Fuse. | | | | | |
| Environment | Workin Temp. | -5DegC to 55DegC. | | | | | |
| | Workin Humidity | 20 to 90%RH Non Condensing. | | | | | |
| | Storage Temp Humidity | -10 to 85DegC 10 to 95% RH. | | | | | |
| | Vibration | 10 to 500Hz, 2G, 20min/sweep, perio -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 | | | | | |
| | Coolin | Natural Cooling. | | | | | |
| | Dimension (L*W*H) | 168*117*67 | | | | | |
| | Weight | 1.1 kg. Approx. | | | | | |
| Note | 1. All parameters NOT specially mentioned are measured at Typical input, rate load and 25Deg.C. ambient temperature. 2. Ripple & noise are measured at 20MHz of band width 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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- Protections: Short Circuit / d/Overload / d/Over voltage
- 100% Full Load Burn in test.
- High efficiency, long life and high reliability
- Miniature size



SPECIFICATION

| MODEL | | DD120-12 | DD120-24 | DD120-48 | DJ120-12 | DJ120-24 | DJ120-48 |
|--------------|--|---|----------|----------|-----------|----------|----------|
| Output | DC Voltage | 12V | 24V | 48V | 12 | 24 | 48 |
| | Rated Current | 10A | 5A | 2.5A | 10 | 5 | 2.5 |
| | Current Range | 0 ~ 10A | 0 ~ 5A | 0 ~ 2.5A | 0 ~ 10A | 0 ~ 5A | 0 ~ 2.5A |
| | Rated Power | 120W | | | | | |
| | 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 | 72~144VDC | | | 54~108VDC | | |
| | Efficiency | >80% | | | >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 | | | | | |
| | 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*117*67 | | | | | |
| | Weight | 1.1 kg. Approx. | | | | | |
| Note | 1. All parameters NOT specially mentioned are measured at Typical input, rated load at 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. | | | | | | |

DATASHEET



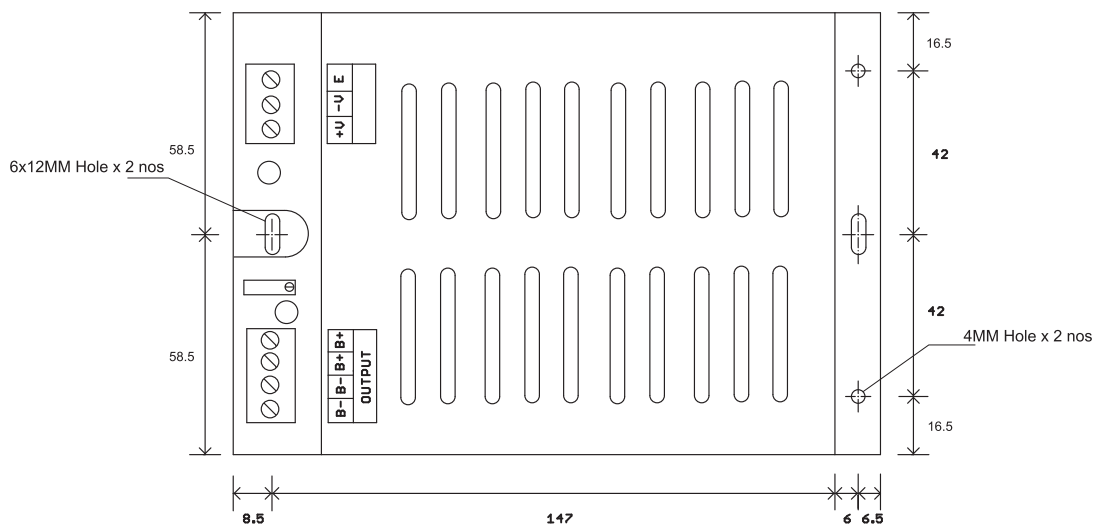
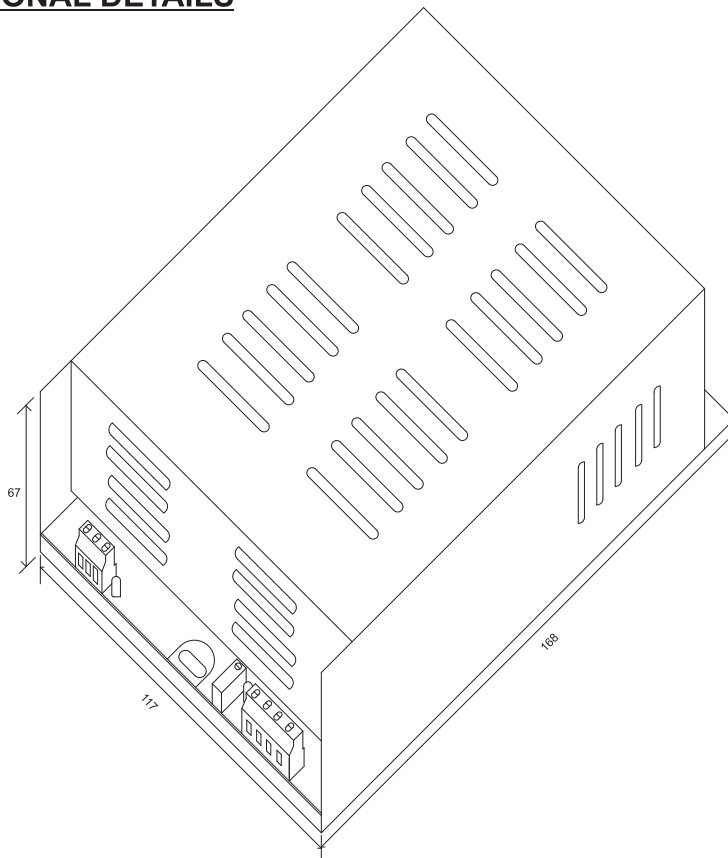
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DIMENSIONAL DETAILS



NOTE : ALL DIMENSIONS ARE IN MM

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