

B62SR Series

300 WATTS DC/DC CONVERTER

FEATURES

- Ultra Wide Input range 18-106VDC
- 200W Output @ 18V - 26V Vin range
- 300W Output @ 27 - 106V Vin range
- Full load efficiency up to 88% at 48Vin
- Parallel Connection of multiple units
- Chassis plate mounting
- Operating Temperature -40C to +75C
- Input Reverse Polarity Protection
- Minimized Inrush Current
- Enable on/off option
- IP67 Protection
- EMC compatible EN12895 CISPR11 Class A
- Electrical Transient Conduction: ISO7637-2

SPECIFICATIONS

INPUT	
Input Voltage	18 - 106Vdc
Max Input Voltage	126Vdc
Input Under Voltage	17Vdc, Turn off voltage threshold
Max input Current	14A
Off converter input current	12mA
Reflected input ripple	0.6A
Max Reverse Polarity	106Vdc
Max Inrush Current	10A
Input Fuse	250V / 30A Fast acting fuse
	6.35mm x 31.75mm
OUTPUT	
Output Voltage	12.4Vdc, 13.7Vdc, 24Vdc
Output Power	200W Output @ 18V - 26V Vin range 300W Output @ 27 - 106V Vin range
Output Current	See Selection Table
Output Voltage Ripple	50mV
Current Share Accuracy	6%
Start up time (by Vin)	Vin 48V, 700ms Vin 72V 850ms
Start up time (by enable)	Vin 48V, 72V, 250ms
OPERATING	
Isolation Voltage	Input to Output 2250Vdc Input to Case 2250Vdc Output to Case 550Vdc
Isolation Resistance	10 MΩ Input to Output
Efficiency	88%
Switching Frequency	160 - 175 kHz
MTBF	675,000 Hours



ENVIRONMENTAL	
Storage Temperature	-40 to +125
Operating Temperature	-40 to +75
Over Temperature Protection	108 (NTC Temperature)
Humidity (non condensing)	Max 95 % rel.H
Water Protection Level	IP67
STANDARDS	
Vibration	10G/15~200HZ/3 PLANES (IEC60068-2-6)
Shock	50G 3 Planes (IEC 60068-2-27))
Emission	30-1000MHz 34-45dBuV/m (EN12895)
Immunity	10V/m /27-1000MHz AM 10V/m /900MHz (EN12895, EN61000-4-3)
ESD	Direct: ±2KV ±4KV Air: ±2KV ±4KV ±8KV (EN12895, EN61000-4-2)
MECHANICAL	
Dimensions	190 x 76 x 44 mm See Technical Illustrations
Weight	900g
B62SR Connector	Mating Connector Kit including Molex Mini-Fit Header Housing with 4 x Molex pins P/N 42819-4213
Fuse Replacement	Integrated fuse holder. If fuse needs to be replaced, it can be removed in anticlockwise direction by slotted screw driver. Recommended fuse replacement Little fuse 0314030.MXP

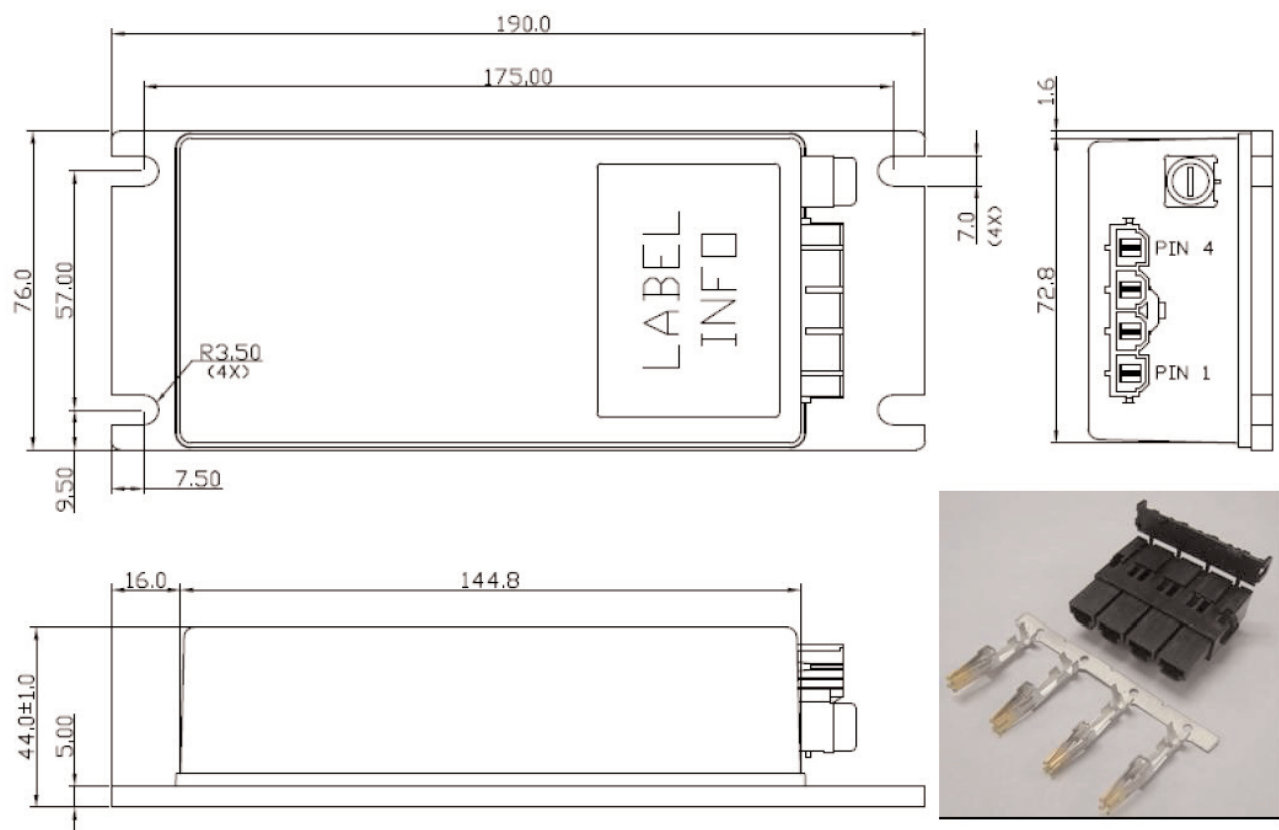
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SELECTION TABLE

PART NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER
B62SR12424AC	18~106Vdc	12.4Vdc	24A	300W
B62SR13722AC	18~106Vdc	13.7Vdc	22A	300W
B62SR24125AC	18~106Vdc	24Vdc	12.5A	300W

TECHNICAL ILLUSTRATIONS



B62SR24125AC

- All dimensions in mm (inches)
- Tolerance: $X.X \pm 0.5$ ($X.XX \pm 0.02$)
 $X.XX \pm 0.25$ ($X.XXX \pm 0.010$)
- Connector:
MOLEX MINI-FIT Sr™ Header
(MOLEX P/N :42819-4213)
- Connector kit :
Housing: 42816-0412
Terminal: 42815-0042

Pin	Function Description
1	OUTPUT -
2	OUTPUT +
3	INPUT -
4	INPUT +