



### FEATURES

- Ultra wide input voltage range, 18~106V
- 200W Output @ 18V~27V Vin range
- 300W Output @ 27~106V Vin range (Including 27V)
- Full Load Efficiency up to 88.5% @48Vin
- Intergrated fuse holder (option)
- Parallel Connection of multiple units
- Box type package with metal base plate
- Package Dimension:  
190.0x76.0x44.0mm (7.48"x2.99"x1.73")
- Operating Temperature Range - 40°C to +75°C
- Input Reverse Polarity Protection
- Minimized Inrush current
- Input UVLO, Output OCL, SCP, OVP, OTP
- Enable on/off (option)
- 2250VDC Isolation
- IP67 Protection
- RoHs Compliant
- ISO 9001, ISO 14001 certified manufacturing facility
- UL60950
- CE Mark
- EMC compatible: EN12895, CISPR11 ClassA
- Electrical transient conduction: ISO7637-2

The B62SR13722, a ultra wide input voltage range of 18~106V, and single isolated output converter, is the latest product offering from a world leader in power systems technology and manufacturing — Delta Electronics, Inc. Such box type DCDC converter can provide 300W (200W at Vin < 27V), 13.7V regulated DC output voltage with full load efficiency up to 88.5% @48Vin; The B62SR13722 offers input UVLO, output over current limit, short circuit, output over voltage, over temperature, and input reverse polarity protections. It has an option for intergrated fuse holder and enable on/off function. It also has parallel function; and allows a wide operating temperature range of -40°C to +75°C. With creative design technology and optimization of component placement, this converter possess outstanding electrical and thermal performance, as well as high reliability under extremly harsh operating conditions. The B62SR13722 meets IP67 protecion (refer to "water protection level" specification).

### Input Characteristics

| Item  | Condition                       | Min.                      | Typ. | Max. | Unit |
|---|---------------------------------|---------------------------|------|------|------|
| Continuous Input Voltage                                |                                 | 18                        | 48   | 106  | VDC  |
| Max Input voltage                                       | 10 minutes, normal operating    |                           |      | 126  | VDC  |
| Input Under-Voltage Lockout, Turn-On Voltage Threshold  |                                 | 16                        | 17   | 18   | VDC  |
| Input Under-Voltage Lockout, Turn-Off Voltage Threshold |                                 | 14                        | 15   | 16   | VDC  |
| Lockout Hysteresis Voltage                              |                                 | 1                         | 2    | 3    | VDC  |
| Maximum Input Current                                   | Vin=18V, 100% Load              |                           | 13.3 | 14   | A    |
| No-Load Input Current                                   | Vin=24V                         |                           | 130  | 180  | mA   |
|   | Vin=48V                         |                           | 60   | 100  | mA   |
|   | Vin=72V, 80V                    |                           | 45   | 80   | mA   |
| Off converter input current                             | Vin=48V, enable off (C version) |                           | 12   | 20   | mA   |
| Reflected input ripple current                          | Vin=48V, Vpp                    |                           |      | 0.6  | A    |
| Max Reverse Polarity Input Voltage                      |                                 |                           |      | 106  | VDC  |
| Max Inrush current                                      |                                 |                           |      | 10   | A    |
| Internal Input Fuse                                     | Ø6.35mm*31.75mm                 | 250V/30A Fast-acting fuse |      |      |      |

## Output Characteristics

| Item   | Conditions                                   | Min.  | Typ.  | Max.  | Unit |
|--|--|-------|-------|-------|------|
| Operating Output Current Range                                       | Vin=18V~27V                                  | 0     |       | 14.5  | A    |
|  | Vin=27V~106V(include 27V)                    | 0     |       | 22    | A    |
| Output Voltage Set Point   | Total Vin range, Io=0                        | 13.9  | 14.1  | 14.3  | V    |
|  | Vin=18~27V, Io=14.5A                         | 13.63 | 13.83 | 14.03 | V    |
|  | Vin=27~106V, Io=22A                          | 13.5  | 13.7  | 13.9  | V    |
| Output Voltage Ripple and Noise,                                     | Full load, Vpp, 20MHz bandwidth              |       | 50    | 100   | mV   |
|  | RMS  |       | 20    | 50    | mV   |
| Output Current Limit   | Vin=24V                                      | 15    | 17    | 19    | A    |
|  | Vin=36V, 48V, 72V, 80V                       | 23    | 26    | 29    | A    |
| Current share accuracy   | Vin=48V, 22A for each module                 |       | 6     | 10    | %    |
| Start-up time(start _up time by Vin)                                 | Vin= 48V(for A/B/C/D)                        |       | 600   | 800   | mS   |
|  | Vin=72V(for A/B/C/D)                         |       | 850   | 1200  | mS   |
| Start-up time(start _up time by Enable)                              | Vin= 48,72V(for C)                           |       | 250   | 400   | mS   |
| Rise time  |  |       | 60    | 100   | mS   |
| Output Voltage Protection  |  | 15    | 16    | 18    | V    |
| Output Voltage Current Transient, positive and negative voltage step | Vin=24V, 7.25A to 10.875A, 0.1A/us slew rate |       | 150   | 250   | mV   |
|  | Vin=27~106V. 11A to 16.5A, 0.1A/us slew rate |       | 150   | 250   | mV   |
| Maximum Output Capacitance   | ESR>10mohm                                   |       |       | 5000  | μF   |
| Output overshoot   |  |       |       | 3     | %    |
| Efficiency @ 100% Load(14.5A)  | Vin=24V                                      | 84.5  | 86.5  |       | %    |
| Efficiency @ 100% Load(22A)  | Vin=36V                                      | 85.5  | 87.5  |       | %    |
| Efficiency @ 100% Load(22A)  | Vin=48V                                      | 86.5  | 88.5  |       | %    |
| Efficiency @ 100% Load(22A)  | Vin=72V,80V                                  | 88.0  | 90.0  |       | %    |
| Efficiency @ 60% Load(8.7A)  | Vin=24V                                      | 85.0  | 87.0  |       | %    |
| Efficiency @ 60% Load(13.2A)   | Vin=36V                                      | 86.3  | 88.3  |       | %    |
| Efficiency @ 60% Load(13.2A)   | Vin=48V                                      | 87.0  | 89.0  |       | %    |
| Efficiency @ 60% Load(13.2A)   | Vin=72V,80V                                  | 88.3  | 90.3  |       | %    |

## General Characteristics

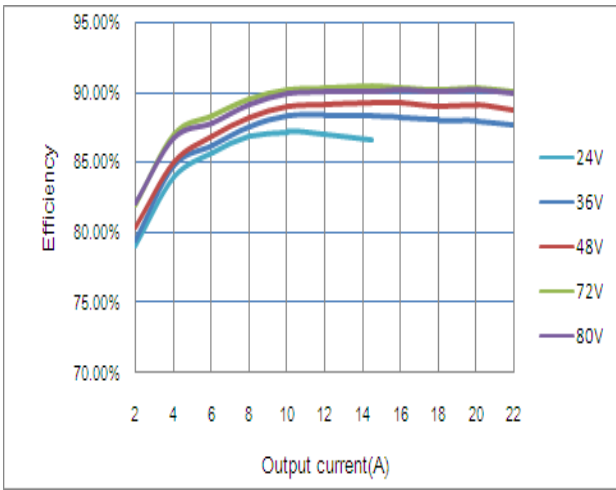
| Item                                   | Conditions                     | Min. | Typ. | Max. | Unit   |
|--|--------------------------------|------|------|------|--------|
| Isolation Voltage,                     | Input to Output, Input to Case |      |      | 2250 | VDC    |
|  | Output to Case                 |      |      | 550  | VDC    |
| Isolation Resistance, Input to Output  |                                | 10   |      |      | MΩ     |
| Isolation Capacitance, Input to Output |                                |      | 9000 |      | pF     |
| Switching Frequency                    |                                |      | 175  |      | KHz    |
| MTBF                                   | Ta=25°C, 80%load               |      | 0.74 |      | Mhours |
| Weight                                 |                                |      | 900  |      | g      |

## Environmental Specifications

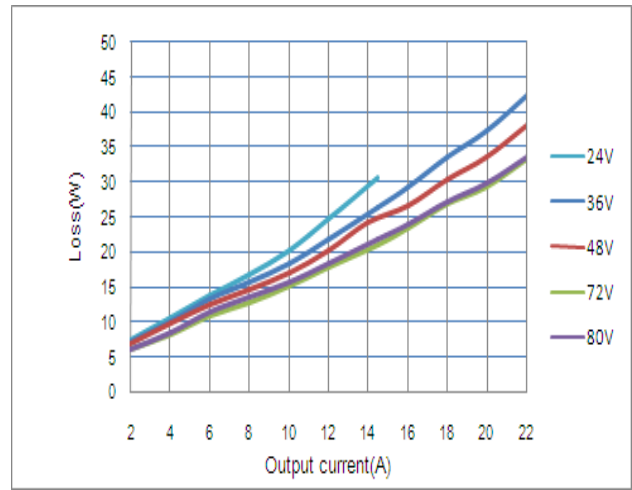
| Parameter                   | Conditions  | Min.                                      | Typ. | Max. | Unit     |
|-----------------------------|---|---|------|------|----------|
| Storage Temperature Range   |   | -40                                       |      | +125 | °C       |
| Operating Temperature Range | Ambient Temperature   | -40                                       |      | +75  | °C       |
| Over Temperature Protection | NTC Temperature, latch mode   |   | 108  |      | °C       |
| Humidity (non condensing)   |   |   |      | 95   | % rel. H |
| Water Protection Level      | With connector&fuseholder for B<br>Without connector&fuseholder for A/C/D |   | IP67 |      |          |
| Vibration                   | IEC 60068-2-6   | 10G/15~200HZ/3 PLANES                     |      |      |          |
| Shock                       | IEC 60068-2-27  | 50G 3 PLANES                              |      |      |          |
| Emission                    | EN12895   | 30-1000MHz 34-45dBuV/m                    |      |      |          |
| Immunity                    | EN12895, EN61000-4-3  | 10V/m /27-1000MHz AM;<br>10V/m /900MHz PM |      |      |          |
| ESD                         | EN12895, EN61000-4-2  | Direct: ±2KV ±4KV; Air: ±2KV ±4KV ±8KV    |      |      |          |

## Notes

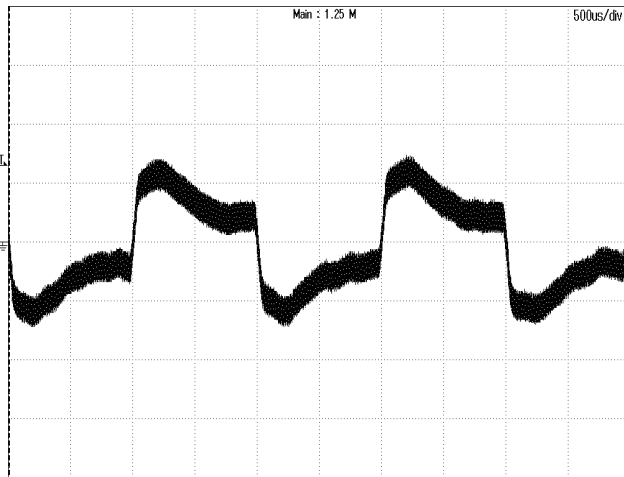
- Specifications typical at Ta=+25°C, nominal input voltage and rated full load output current unless otherwise noted.
- Specifications are subject to change without notice.



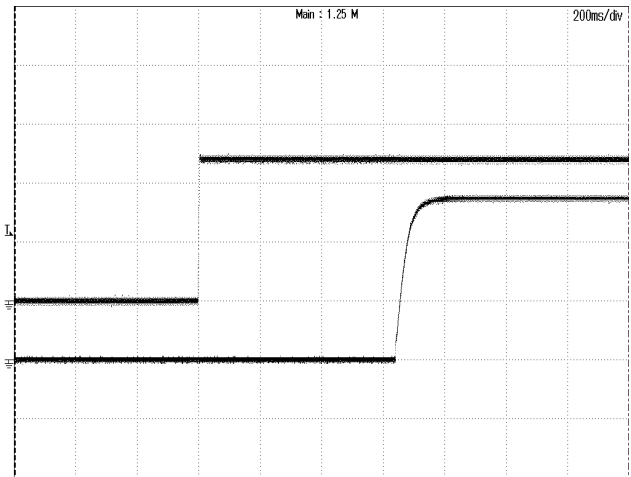
**Figure 1:** Efficiency vs. Output current @ Vin=24V,36V,48V, 72V, 80V



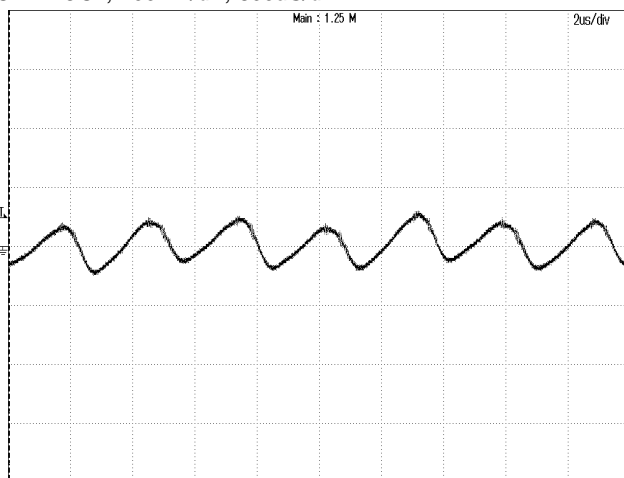
**Figure 2:** Loss vs. Output current @ Vin=24V,36V,48V, 72V, 80V



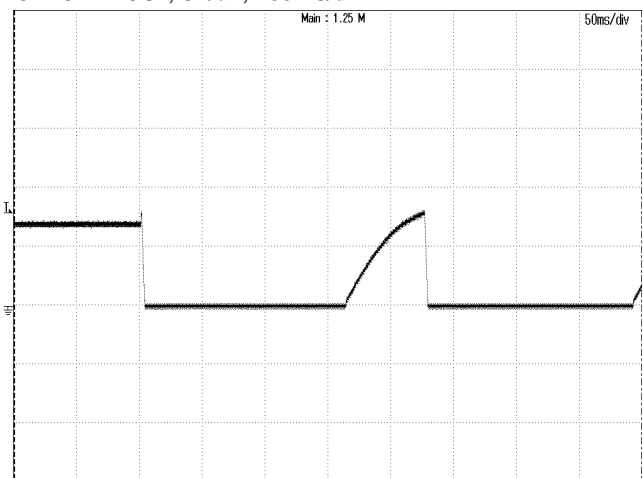
**Figure 3:** Dynamic response to load step 11A~16.5A with 0.1A/uS slew rate at 48Vin  
CH1: VOUT, 100mV/div, 500uS/div



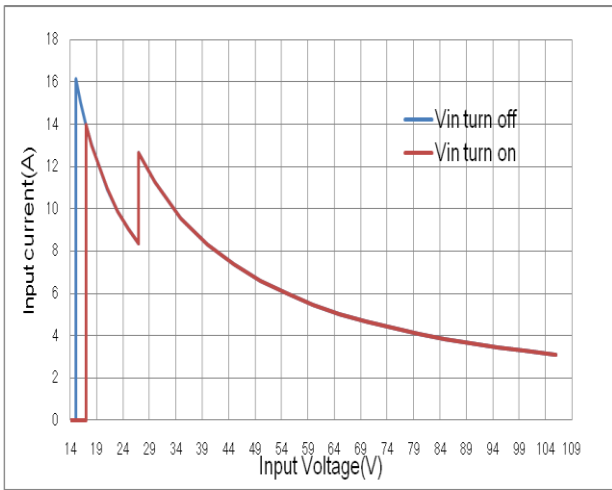
**Figure 4:** Vout start up with Vin on at 48Vin, 22A Iout,  
TOP: VIN, 20V/div, 200mS/div  
BOTTOM: VOUT, 5V/div, 200mS/div



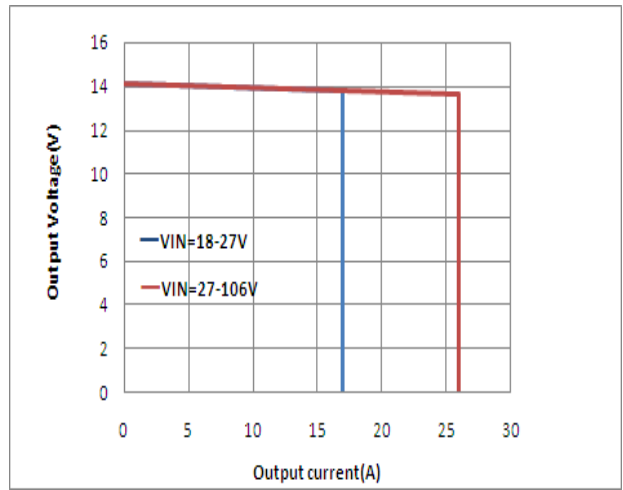
**Figure 5:** Output ripple & noise at 48Vin, 22A Iout  
CH1: VOUT, 50mV/div, 2uS/div



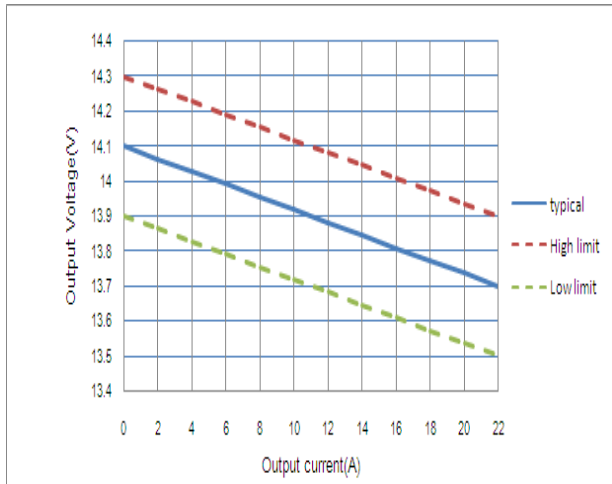
**Figure 6:** Output over voltage protection at 48Vin, 11A Iout  
CH1: VOUT, 10V/div, 50mS/div



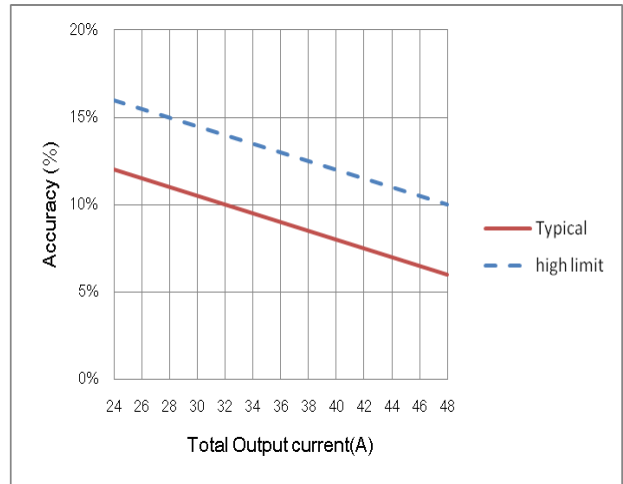
**Figure 7:** Input current vs. Input voltage  
 @ Vin=18V~27V, 200W; Vin=27V~106V, 300W



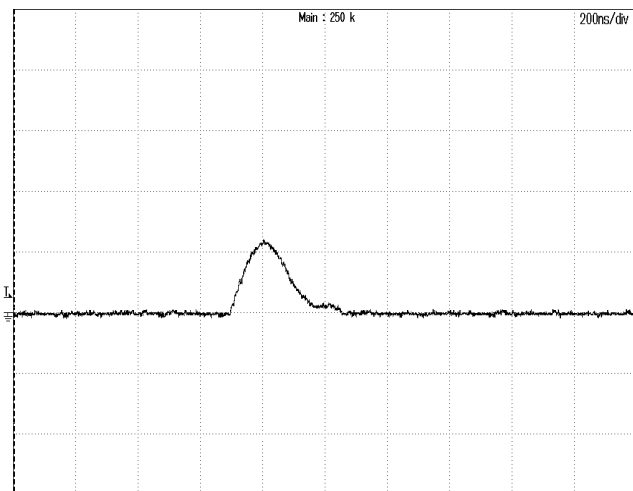
**Figure 8:** Output voltage vs. Output current  
 OCL Performance



**Figure 9:** Output voltage vs. Output current  
 @ Vin=48V. Droop function.



**Figure 10:** Current share accuracy vs. Total output current  
 2 in parallel.



**Figure 11:** Inrush current @ Vin=48V  
 CH1: Iin, 2A/div, 200nS/div; Max current 2.4A, I2t=1.24E-7 A²S

## FEATURES DESCRIPTIONS

### Output Over-Current Limit and Short Protection

The modules include internal output over-current limit (OCL) and short circuit protection (SCP) circuits, the OCL set point is lower than that of the SCP; The response of SCP circuit is much fast than that of the OCL circuit. The slowly increase of the output current will let module enter OCL protection when the current exceeds the OCL set point, while the fast increase of the output current will let module enter SCP when the current exceeds the SCP set point.

When the modules enter OCL protection, the output voltage will decrease while the output current is kept constant, the output voltage will soft start to set point when the overload condition is removed.

The module will enter hiccup mode when it triggers the SCP set point. The module will try to restart after shutdown. If the overload condition still exists, the module will shut down again. This restart trial will continue until the overload condition is removed.

### Output Over-Voltage Protection

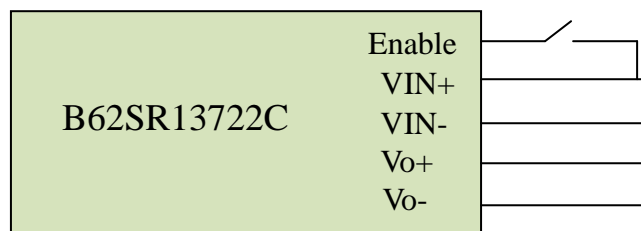
The power module includes an internal output over-voltage protection(OVP) circuit, which monitors the voltage on the output terminals. If this voltage exceeds the OVP set point, the module will shut down, and then restart after a fixed delay time (hiccup mode), please refer to figure6 for detail.

### Over-Temperature Protection

The over-temperature protection consists of circuitry that provides protection from thermal damage. If the temperature exceeds the preset temperature threshold the module will shut down and enter into latch mode, and all components will not exceed their absolute maximum temperature ratings. The module will not recover until the input source is powered on again.

### Remote On/Off

B62SR13722C has Enable control function. This Enable PIN is designed on the primary side of converter, the converter will turn on when the Enable PIN connected to VIN+, and turn off when the Enable PIN connected to VIN- or floating.



*Figure 12: suggested Enable connection*

### Input Reverse Voltage Protection

The input reverse voltage protection is provided by an diode on the input line, the standoff voltage for the reverse protection shall be no less than -106V.

### Parallel connection of multiple units

Two units parallel operation is verified, please contact Delta if more than two units need to be paralleled. While paralleling multiple units, the impedance of the cables from unit to junction point of each unit should be within  $\pm 5\%$  of each other.

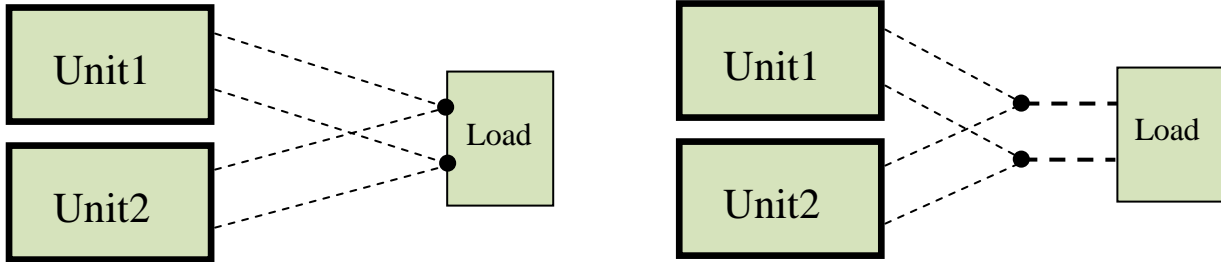


Figure 13: suggested parallel connections

### EMC

The converter has the internal EMI filters and meet the EMC standards EN12895 30-100MHz 34-45dBuV/m. The test result is showed as below

**Conditions:** Vin=48V, Io=22A, 10m measure distance

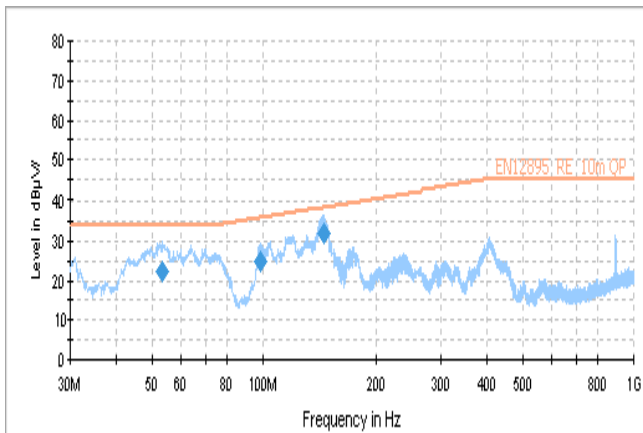


Figure 14: test result(Vertical)

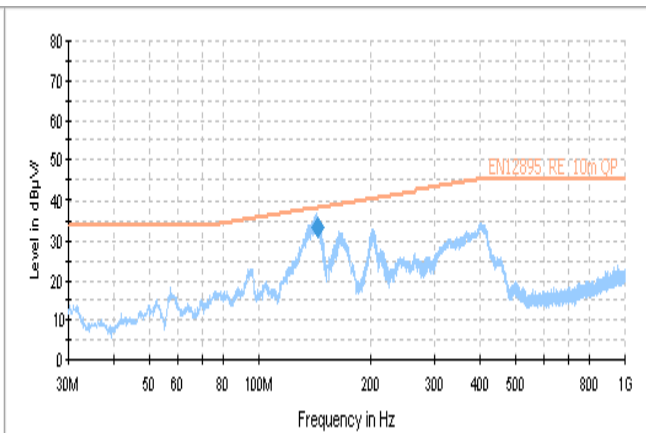


Figure 15: test result(Horizontal)

### Fuse replacement

For the versions with the intergratted the fuse holder, when the fuse needs to be replaced, it can be taken down in an anticlockwise direction by slotted type screwdrivers .

Recommended fuse replacement P/N:

Littlefuse 0314030.MXP

## THERMAL CONSIDERATION

The thermal curve (Figure17~21) is based on a 250x300x5 AL table, shown as below figure.

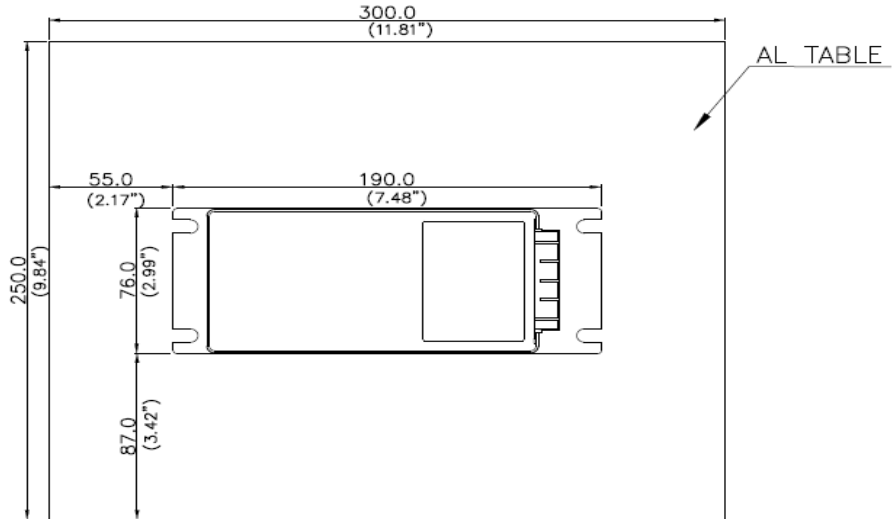


Figure 16: Thermal consideration

## THERMAL CURVES

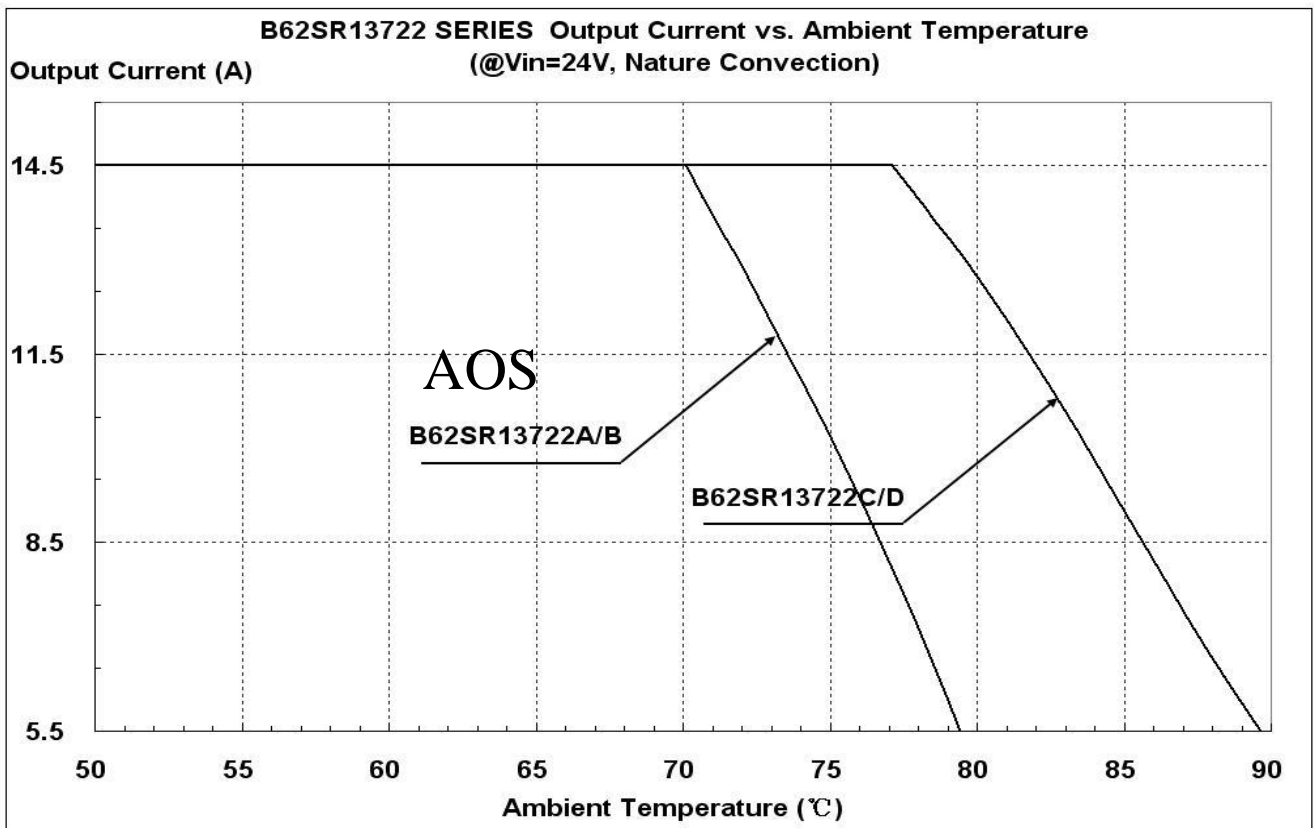


Figure 17: Output Current vs. Ambient temperature @ Vin=24V

**THERMAL CURVES**

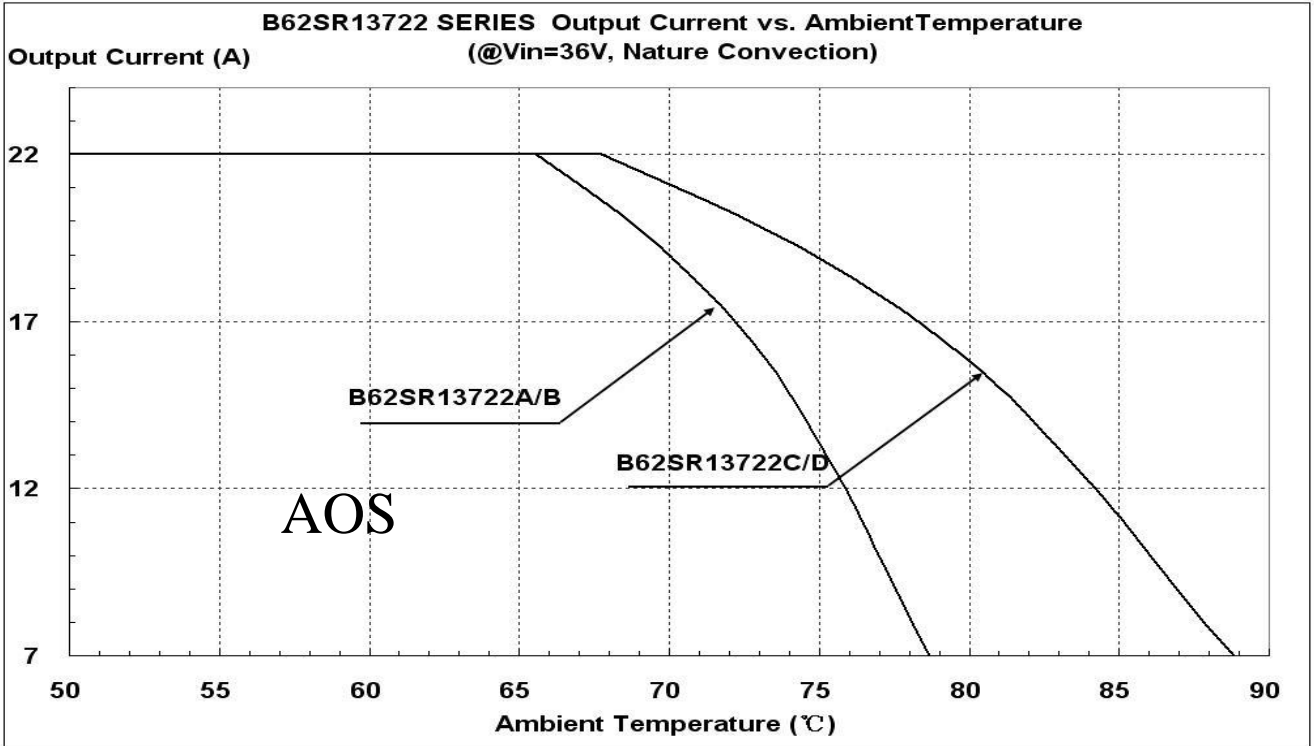


Figure 18: Output Current vs. Ambient temperature @ Vin=36V

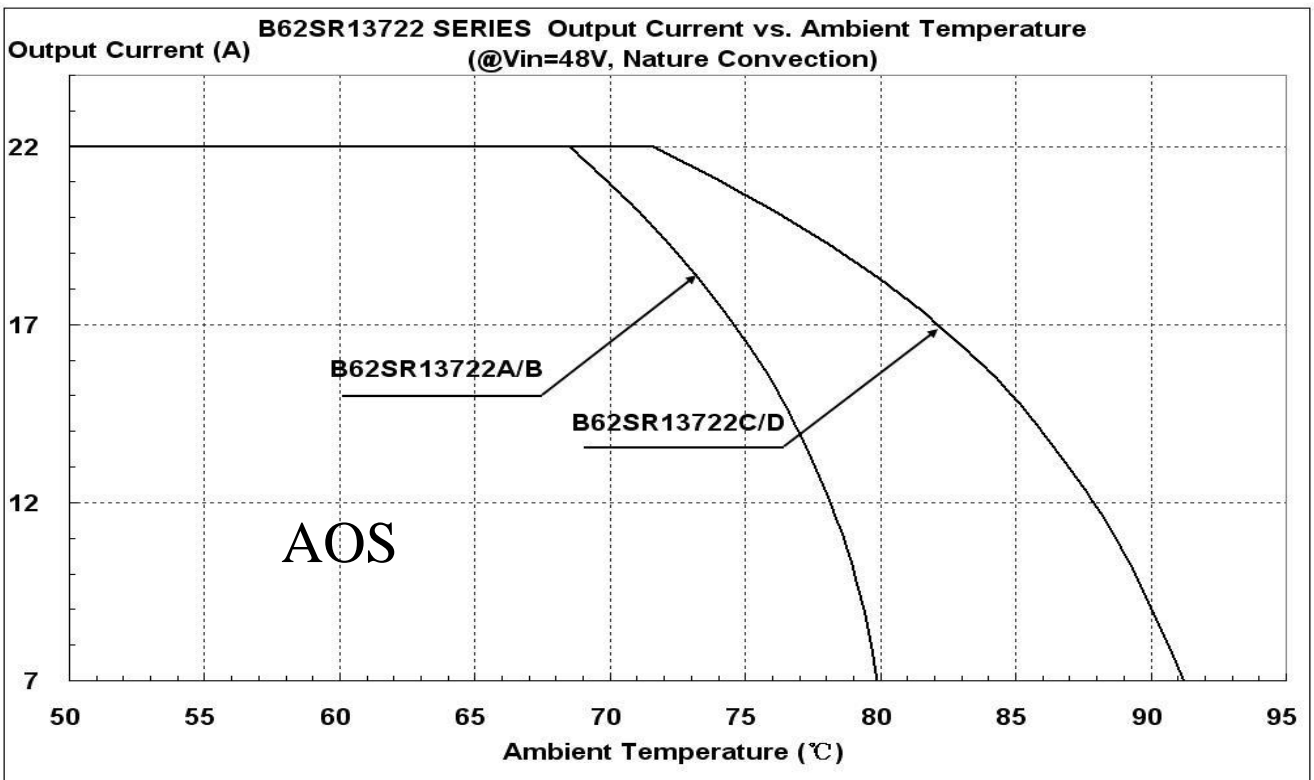


Figure 19: Output Current vs. Ambient temperature @ Vin=48V



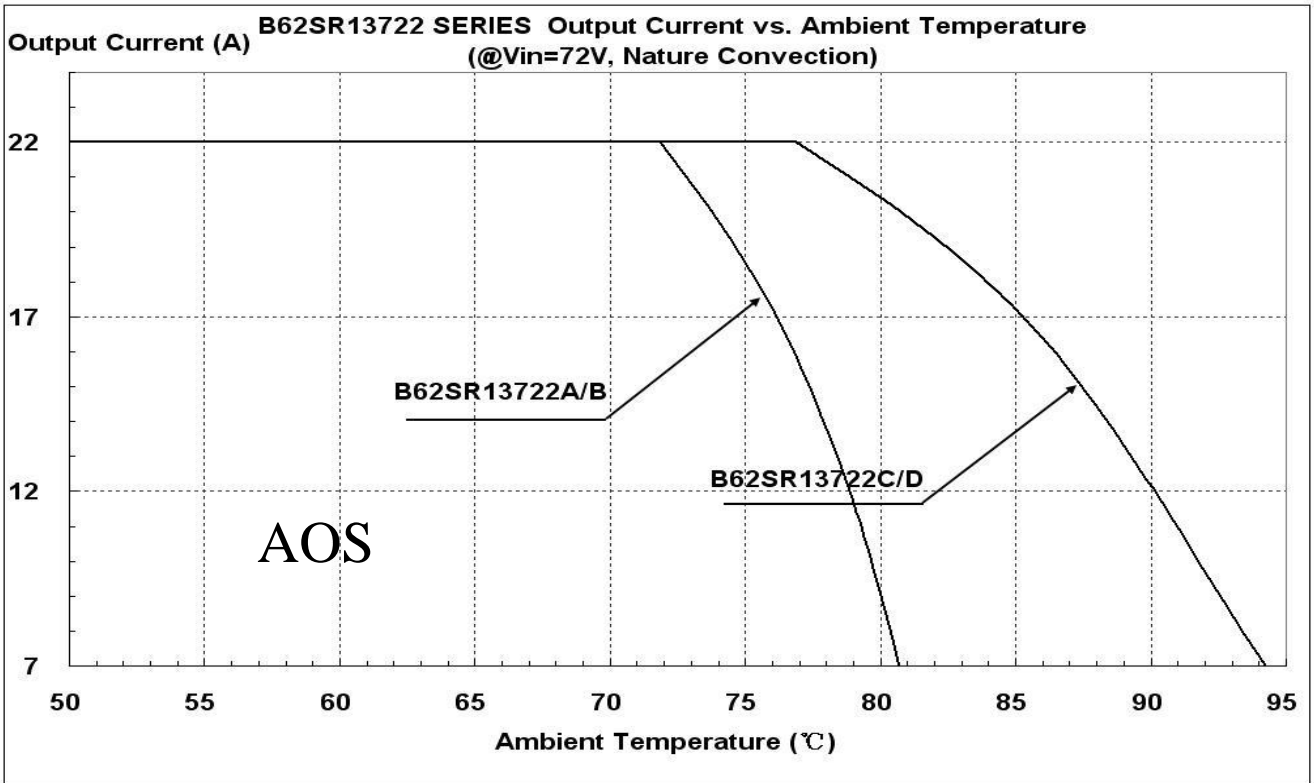


Figure 20: Output Current vs. Ambient temperature @ Vin=72V

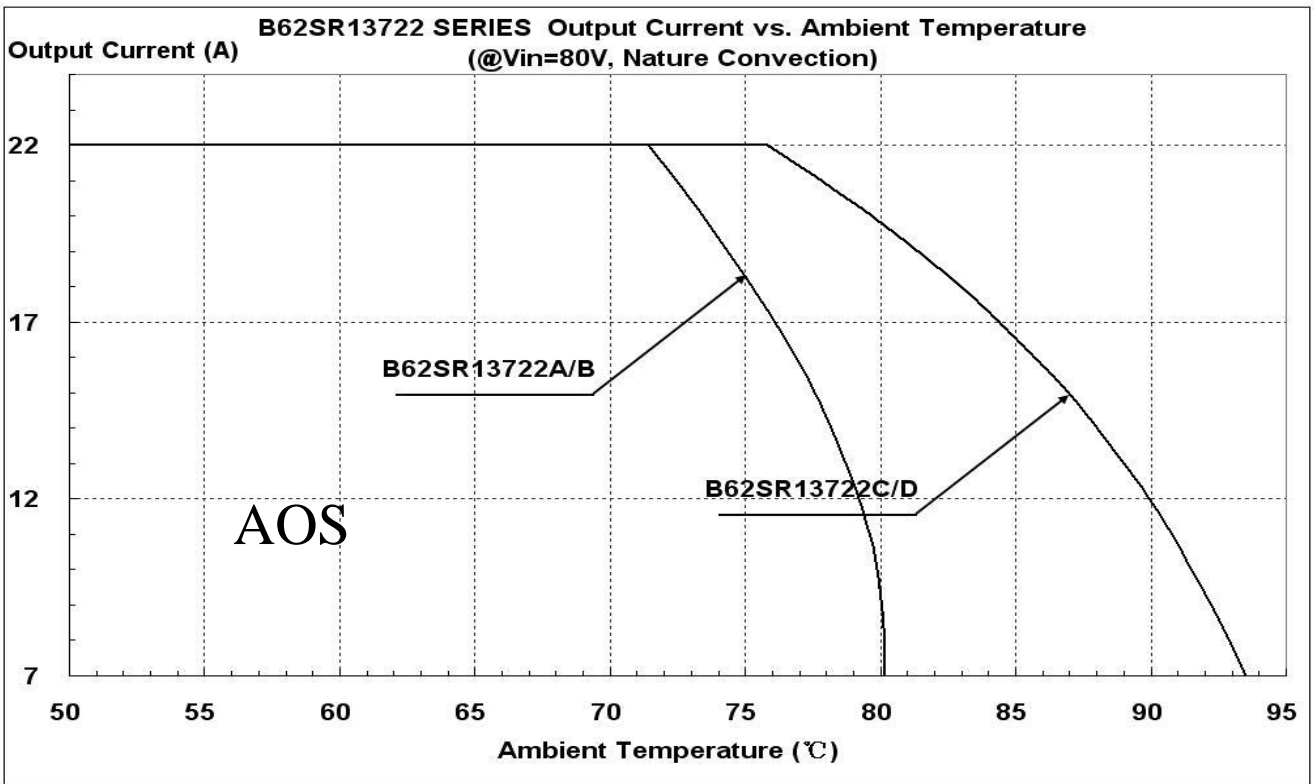


Figure 21: Output Current vs. Ambient temperature @ Vin=80V

## THERMAL CONSIDERATION

The following figure shows the location to monitor the temperature of base plate. Before customer decides to use this DCDC converter, a thermal evaluation need to be did to make sure the temperature of base plate is lower than that read from below thermal curves (Figure23~27 base on different input voltage).

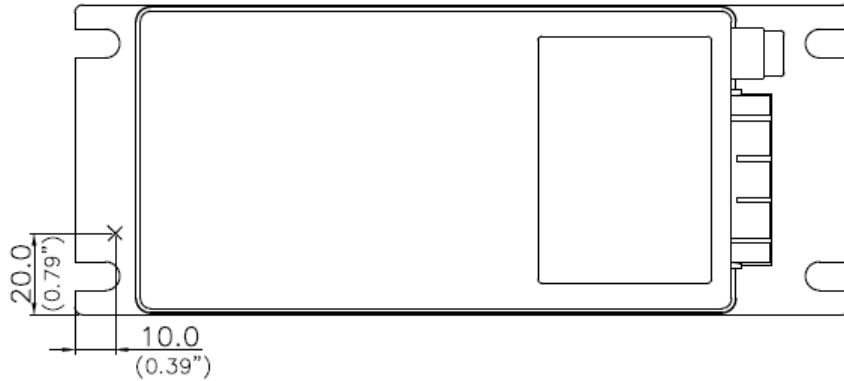


Figure 22: Thermal consideration

## THERMAL CURVES

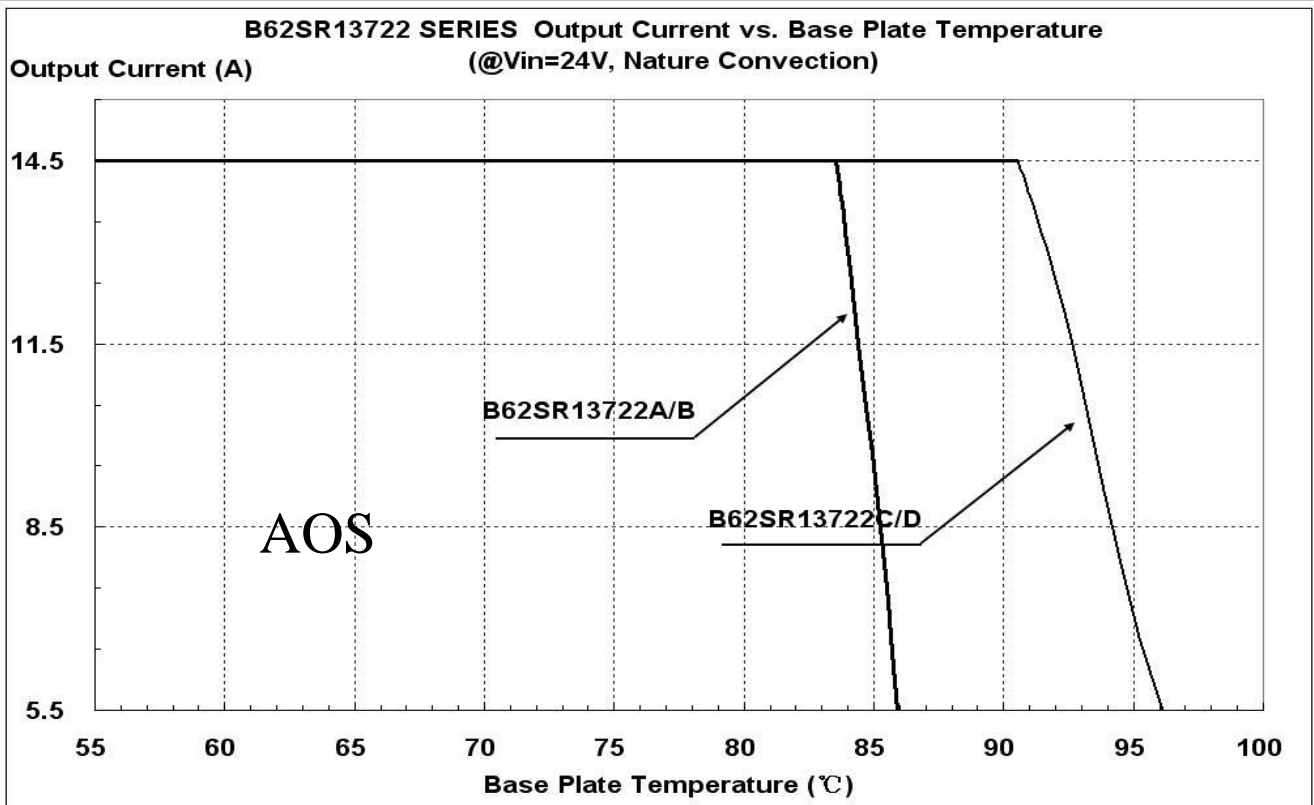


Figure 23: Output Current vs. Base Table temperature @ Vin=24V

## THERMAL CURVES

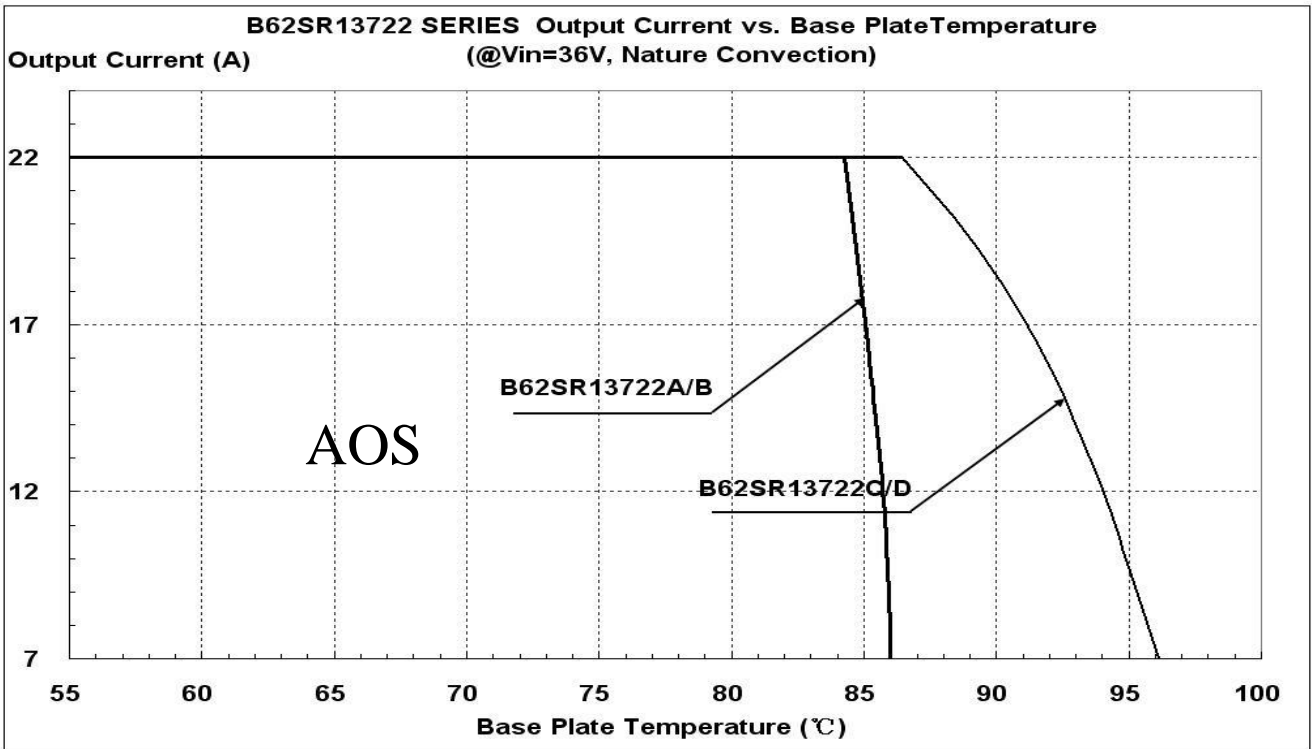


Figure 24: Output Current vs. Base Table temperature @ Vin=36V

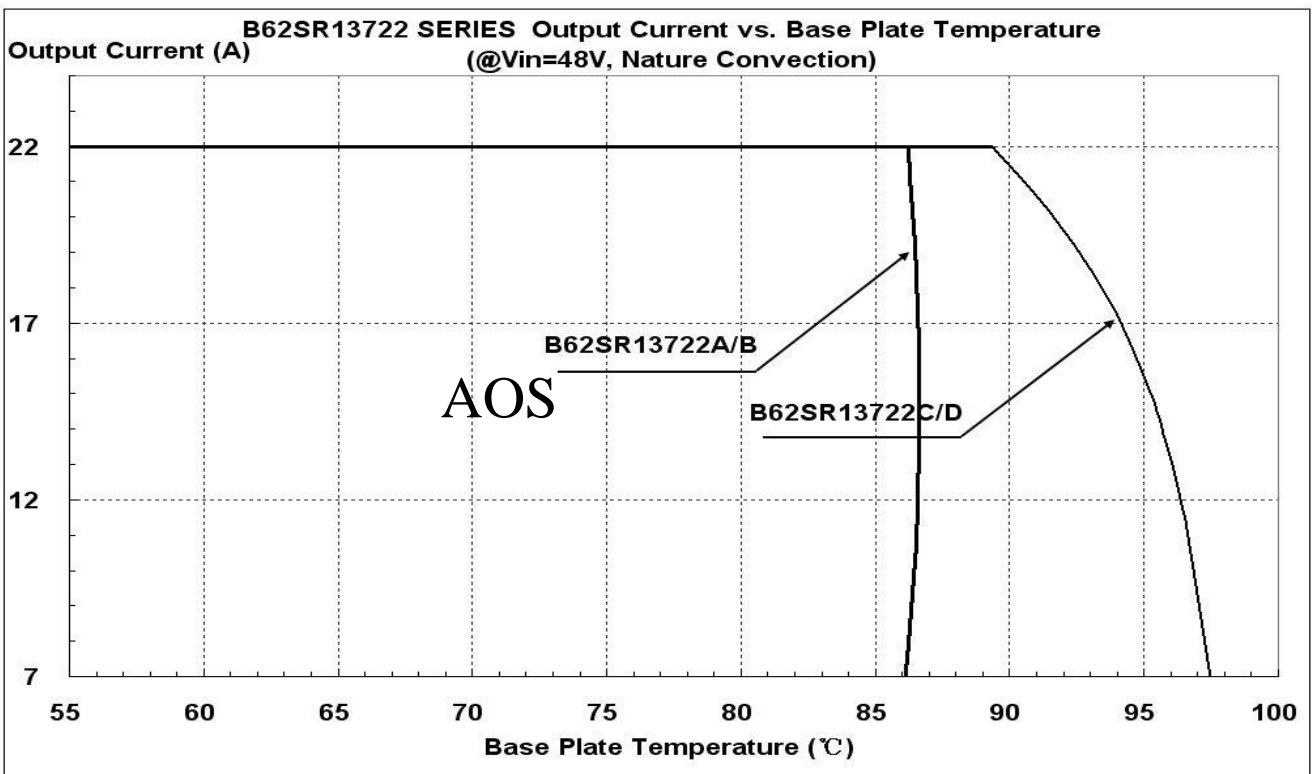


Figure 25: Output Current vs. Base Table temperature @ Vin=48V

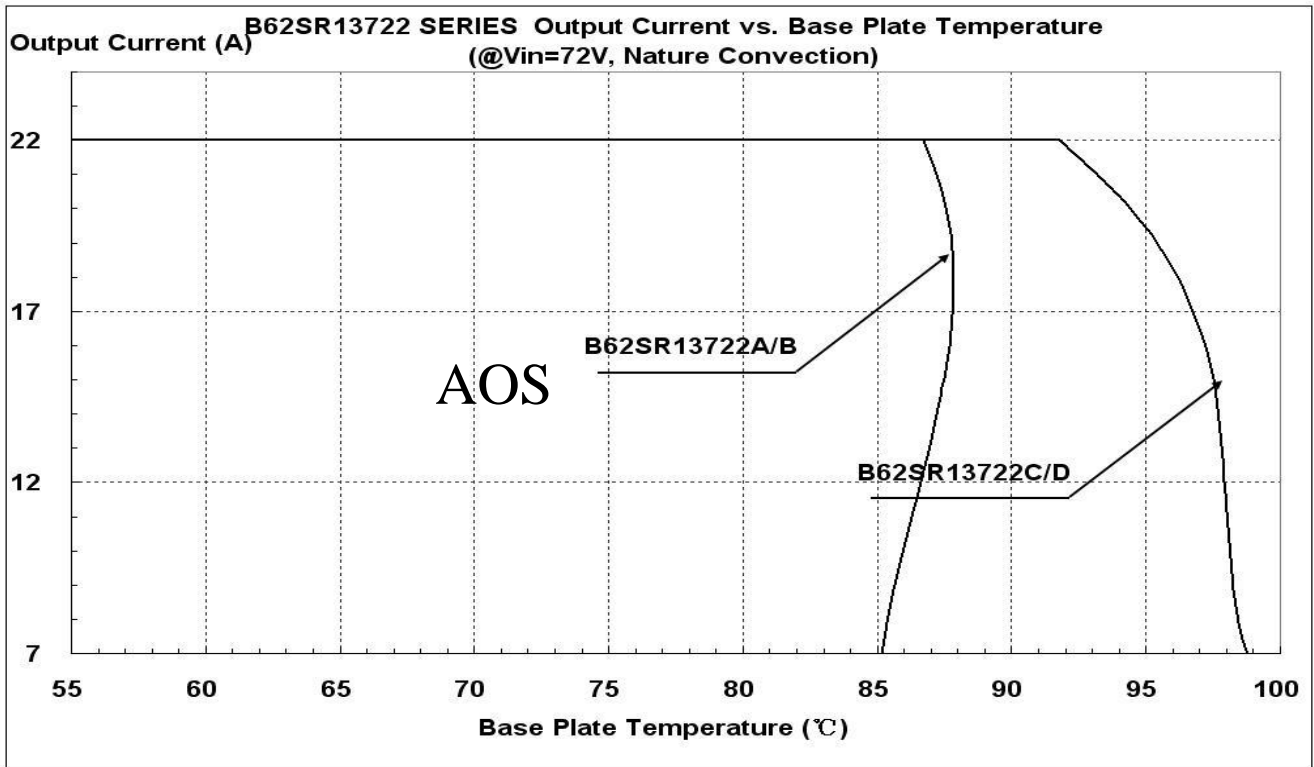


Figure 26: Output Current vs. Base Table temperature @ Vin=72V

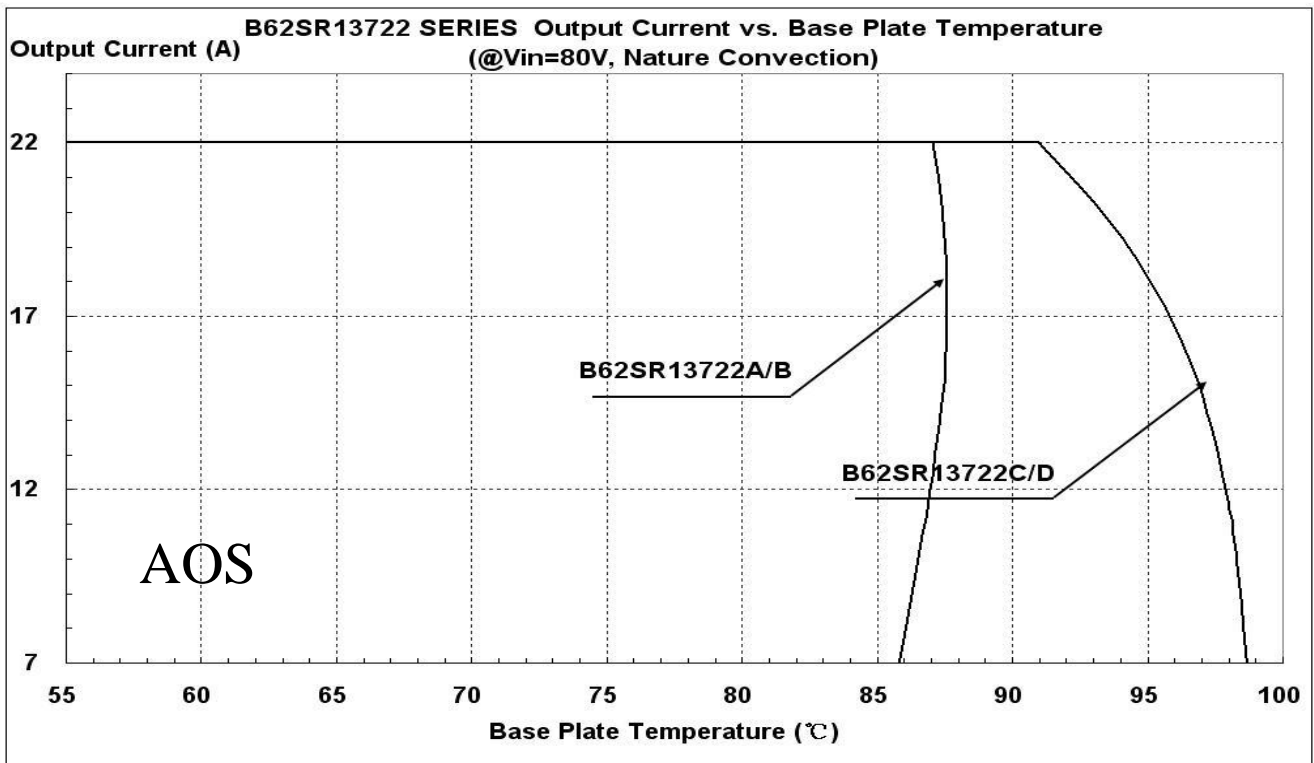
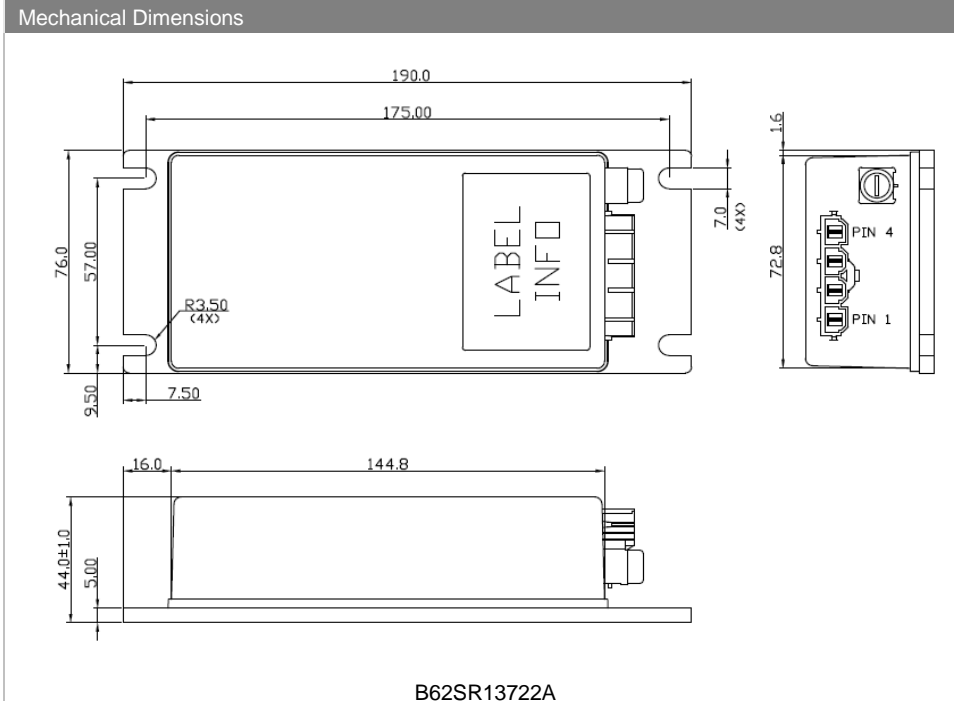


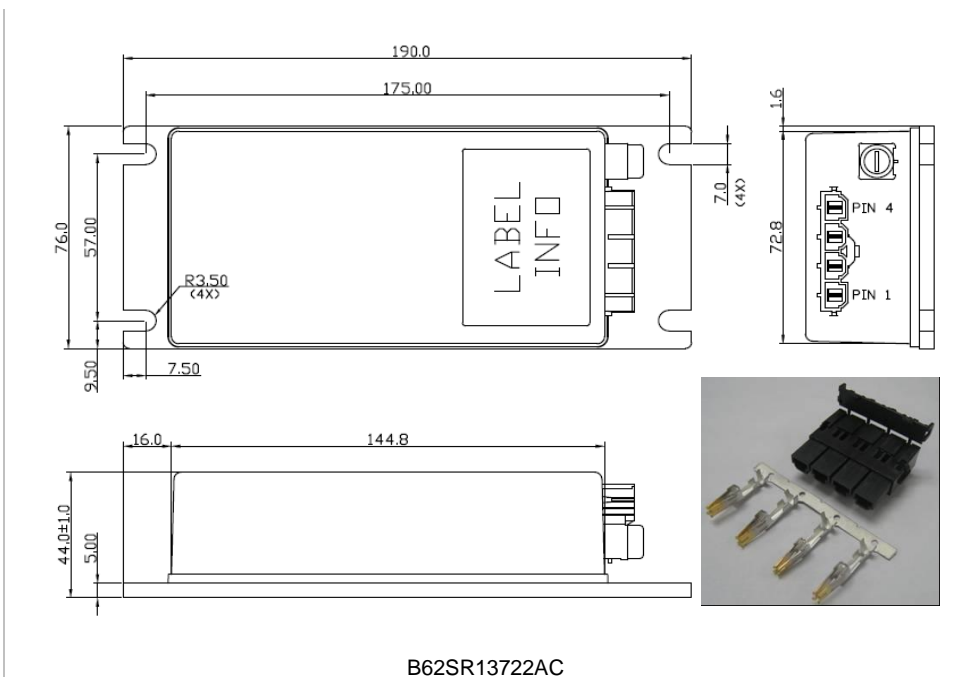
Figure 27: Output Current vs. Base Table temperature @ Vin=80V

## Mechanical Drawing



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

- All dimensions in mm (inches)
- Tolerance: X.X±0.5 (X.XX±0.02)  
X.XX±0.25 ( X.XXX±0.010)
- Connector:  
MOLEX MINI-FIT Sr™ Header  
(MOLEX P/N :42819-4213)



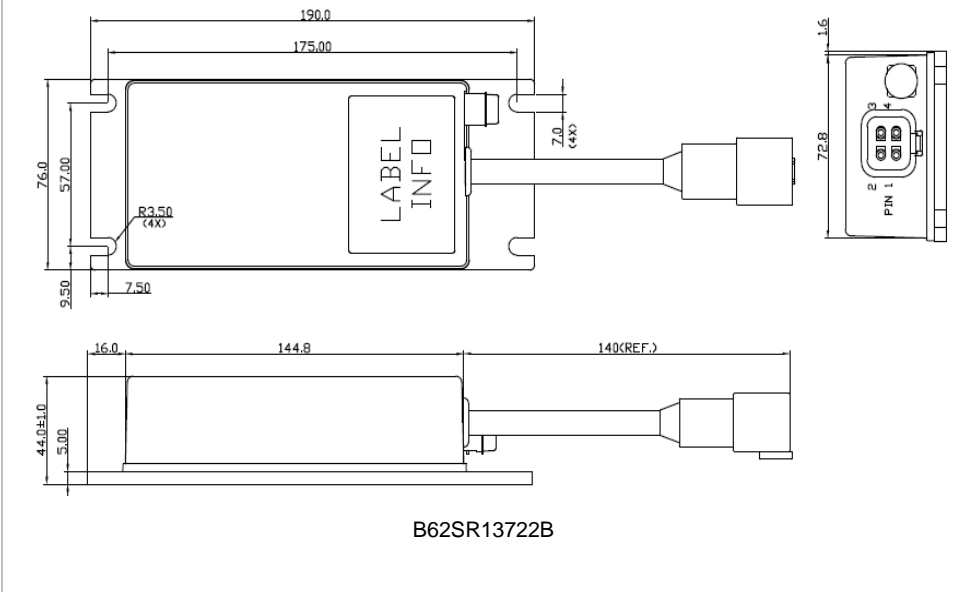
| Pin | Function Description |
|-----|----------------------|
| 1   | OUTPUT -             |
| 2   | OUTPUT +             |
| 3   | INPUT -              |
| 4   | INPUT +              |

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

## Mechanical Drawing

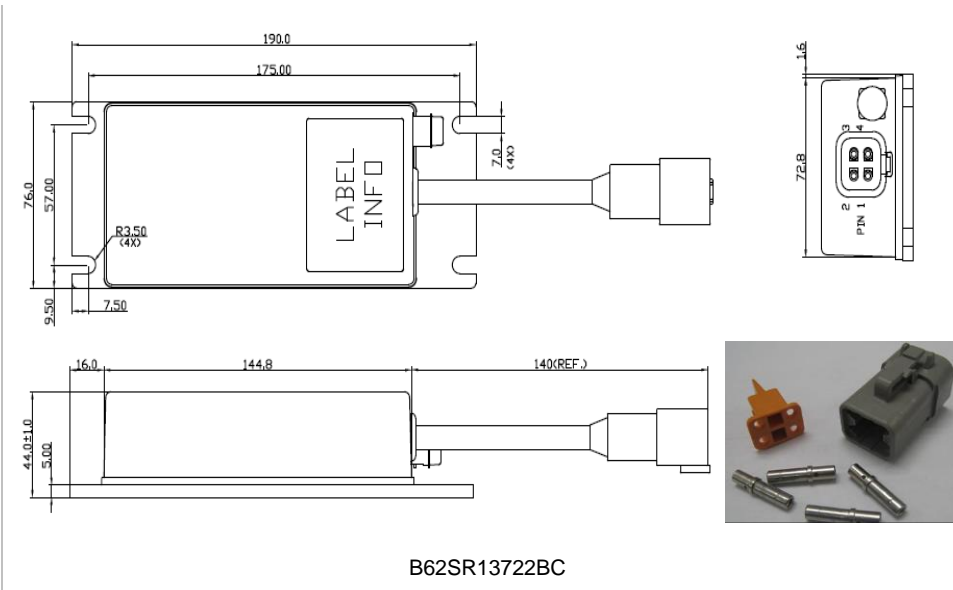
### Mechanical Dimensions

### Pin Connections



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

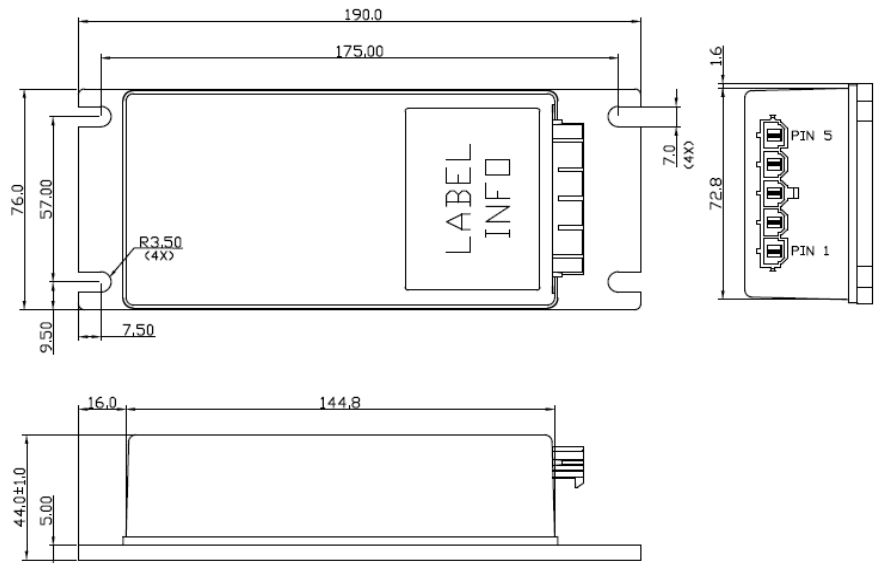
- All dimensions in mm (inches)
- Tolerance: X.X±0.5 (X.XX±0.02)  
X.XX±0.25 ( X.XXX±0.010)
- Connector:  
Deutsch DTP Receptacles  
(DEUTSCH P/N :DTP04-4P)

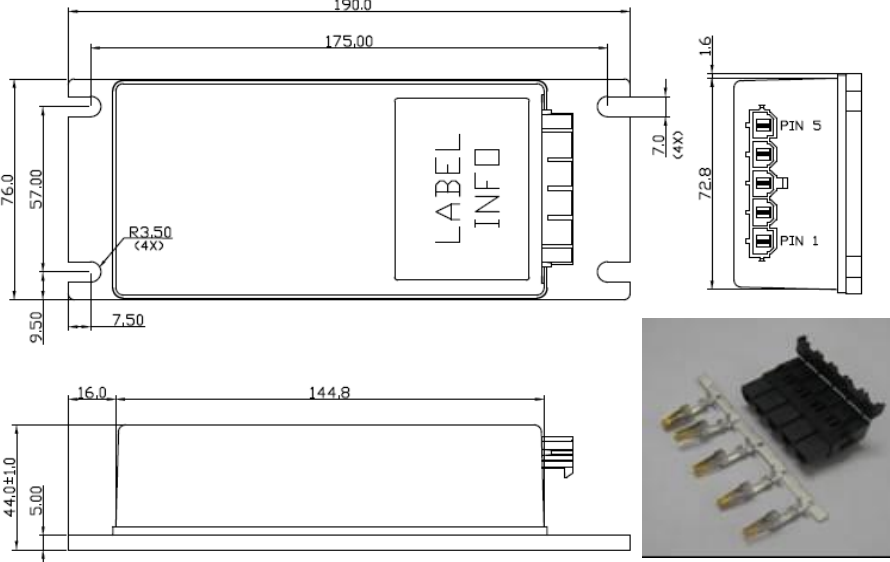


| Pin | Function Description |
|-----|----------------------|
| 1   | OUTPUT -             |
| 2   | OUTPUT +             |
| 3   | INPUT -              |
| 4   | INPUT +              |

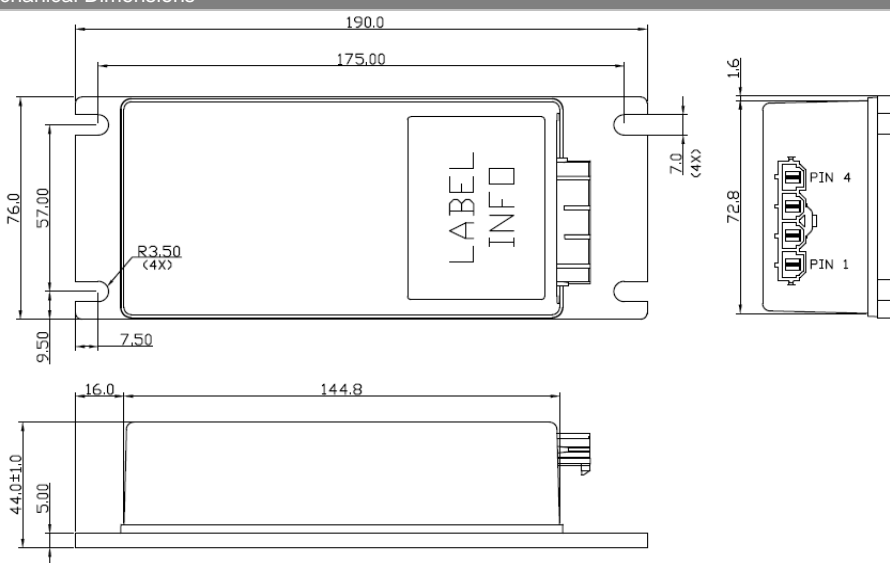
- All dimensions in mm (inches)
- Tolerance: X.X±0.5 (X.XX±0.02)  
X.XX±0.25 ( X.XXX±0.010)
- Connector:  
Deutsch DTP Receptacles  
(DEUTSCH P/N :DTP04-4P)
- Connector kit :  
Housing: DTP06-4S  
Wedge lock: WP-4S  
Terminal: 0462-203-12141

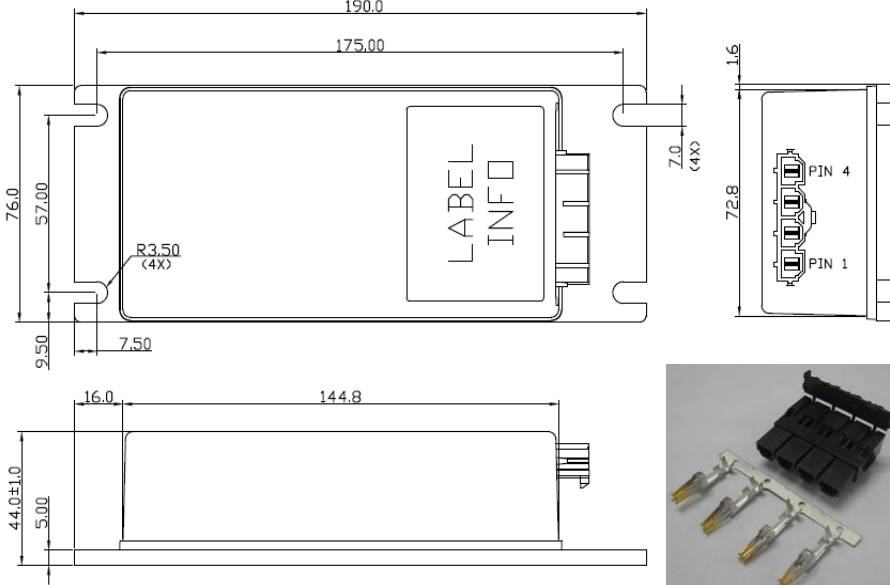
## Mechanical Drawing

| Mechanical Dimensions   |        | Pin Connections   |                      |
|---|--------|---|----------------------|
|  <p>Top view dimensions: 190.0 (total length), 175.0 (main body length), 76.0 (total height), 57.0 (main body height), 9.50 (bottom offset), 7.50 (bottom offset), R3.50 (4X) (corner radius).</p> <p>Side view dimensions: 144.8 (main body length), 16.0 (main body width), 44.0±1.0 (main body height), 5.00 (main body height).</p> <p>Connector view dimensions: 72.8 (connector length), 1.6 (connector width), 7.0 (4X) (pin pitch).</p> |        | Pin   | Function Description |
|   |        | 1   | OUTPUT -             |
|   |        | 2   | OUTPUT +             |
|   |        | 3   | INPUT -              |
|   |        | 4   | INPUT +              |
| 5   | ENABLE |   |                      |
|   |        | <ul style="list-style-type: none"> <li>➤ All dimensions in mm (inches)</li> <li>➤ Tolerance: X.X±0.5 (X.XX±0.02)<br/>X.XX±0.25 (X.XXX±0.010)</li> <li>➤ Connector:<br/>MOLEX MINI-FIT Sr™ Header<br/>(MOLEX P/N :42819-5213)</li> </ul> |                      |
| B62SR13722C   |        |   |                      |

|   |        |   |                      |
|---|--------|---|----------------------|
|  <p>Top view dimensions: 190.0 (total length), 175.0 (main body length), 76.0 (total height), 57.0 (main body height), 9.50 (bottom offset), 7.50 (bottom offset), R3.50 (4X) (corner radius).</p> <p>Side view dimensions: 144.8 (main body length), 16.0 (main body width), 44.0±1.0 (main body height), 5.00 (main body height).</p> <p>Connector view dimensions: 72.8 (connector length), 1.6 (connector width), 7.0 (4X) (pin pitch).</p> |        | Pin   | Function Description |
|   |        | 1   | OUTPUT -             |
|   |        | 2   | OUTPUT +             |
|   |        | 3   | INPUT -              |
|   |        | 4   | INPUT +              |
| 5   | ENABLE |   |                      |
|   |        | <ul style="list-style-type: none"> <li>➤ All dimensions in mm (inches)</li> <li>➤ Tolerance: X.X±0.5 (X.XX±0.02)<br/>X.XX±0.25 (X.XXX±0.010)</li> <li>➤ Connector:<br/>MOLEX MINI-FIT Sr™ Header<br/>(MOLEX P/N :42819-5213)</li> <li>➤ Connector kit :<br/>Housing: 42816-0512<br/>Terminal: 42815-0042</li> </ul> |                      |
| B62SR13722CC  |        |   |                      |

## Mechanical Drawing

| Mechanical Dimensions  |  | Pin Connections  |                      |
|--|--|--|----------------------|
|  |  | Pin  | Function Description |
|  |  | 1  | OUTPUT -             |
|  |  | 2  | OUTPUT +             |
|  |  | 3  | INPUT -              |
|  |  | 4  | INPUT +              |
|  |  | <ul style="list-style-type: none"> <li>➤ All dimensions in mm (inches)</li> <li>➤ Tolerance: X.X±0.5 (X.XX±0.02)<br/>X.XX±0.25 ( X.XXX±0.010)</li> <li>➤ Connector:<br/>MOLEX MINI-FIT Sr™ Header<br/>(MOLEX P/N :42819-4213)</li> </ul> |                      |
| B62SR13722D  |  |  |                      |

|  |  |  |                      |
|--|--|--|----------------------|
|  |  | Pin  | Function Description |
|  |  | 1  | OUTPUT -             |
|  |  | 2  | OUTPUT +             |
|  |  | 3  | INPUT -              |
|  |  | 4  | INPUT +              |
|  |  | <ul style="list-style-type: none"> <li>➤ All dimensions in mm (inches)</li> <li>➤ Tolerance: X.X±0.5 (X.XX±0.02)<br/>X.XX±0.25 ( X.XXX±0.010)</li> <li>➤ Connector:<br/>MOLEX MINI-FIT Sr™ Header<br/>(MOLEX P/N :42819-4213)</li> <li>➤ Connector kit :<br/>Housing: 42816-0412<br/>Terminal: 42815-0042</li> </ul> |                      |
| B62SR13722DC   |  |  |                      |

## Physical Outline

|               |  |
|---------------|--|
| Case Size     | : 190.0x76.0x44.0 mm (7.48"x2.99"x1.73") |
| Case Material | : Case: PC; Plate: AL6063                |





## Part Numbering System

| B           | 62               | S                 | R              | 137            | 22             | A           |                           |            | C                |                        |
|-------------|------------------|-------------------|----------------|----------------|----------------|-------------|---------------------------|------------|------------------|------------------------|
| Form Factor | Input Voltage    | Number of Outputs | Product Series | Output Voltage | Output Current | Option Code |                           |            | Option Fitting   |                        |
| B-Box       | 62 –<br>18V~106V | S –<br>Single     | R –<br>Regular | 137 –<br>13.7V | 22 –<br>22A    |             | With Built-in fuse holder | Enable pin | Sealed connector | Connector Kit          |
|             |                  |                   |                |                |                | A           | YES                       | NO         | NO               | 1xhousing+ 4 terminals |
|             |                  |                   |                |                |                | B           | YES                       | NO         | YES              | 1xhousing+ 4 terminals |
|             |                  |                   |                |                |                | C           | NO                        | YES        | NO               | 1xhousing+ 5 terminals |
|             |                  |                   |                |                |                | D           | NO                        | NO         | NO               | 1xhousing+ 4 terminals |

## Model List

| Input Voltage Range | Input    |     | Output |     | EFF @48VIN 100% LOAD |
|---------------------|----------|-----|--------|-----|----------------------|
| B62SR13722(A B C D) | 18V~106V | 14A | 13.7V  | 22A | 88.5%                |

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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