



# DC-DC

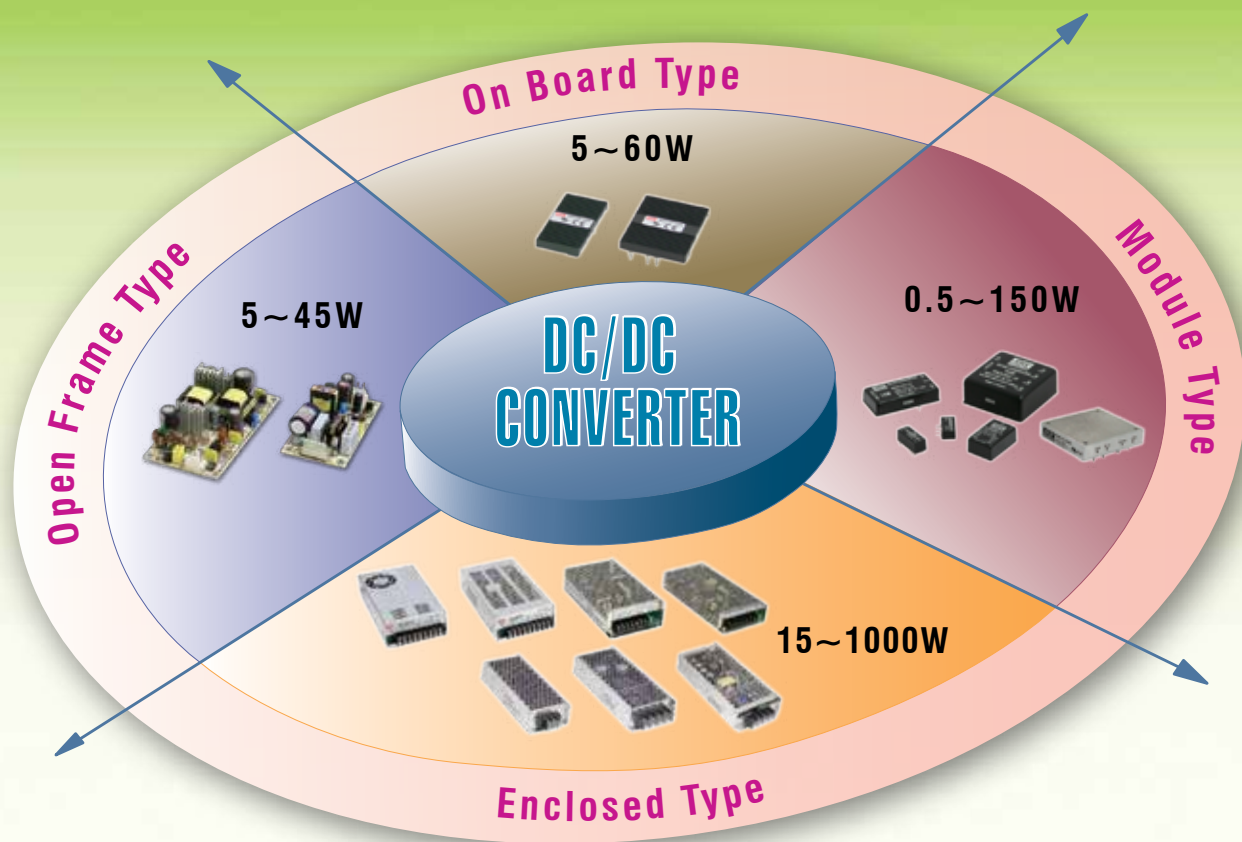
## converter



- ▶ 0.5~150W      Module Type
- ▶ 5~60W      On Board Type
- ▶ 5~45W      Open Frame Type
- ▶ 15~1000W      Enclosed Type

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## ► Product Range



## ► Advantages of MEAN WELL Product

- Professional design, stable quality, low cost, prompt service
- Complete AC-DC product lines and DC-DC products, provide various selection for clients
- Unique and complete 15~1000W enclosed DC-DC converters
- High flexibility of modification to meet customers' request
- Continually launching new products

## ► On Board Type

**[ Single Output ]**

| Series                                                                                    | Wattage | Input (VDC)         | Output Rated Current (mA) |      |      |      |      |      | Features  | Dimension (LxWxH) (inch) | Safety/ EMC | Warranty (Year) |
|-------------------------------------------------------------------------------------------|---------|---------------------|---------------------------|------|------|------|------|------|-----------|--------------------------|-------------|-----------------|
|                                                                                           |         |                     | 3.3V                      | 5V   | 9V   | 12V  | 15V  | 24V  |           |                          |             |                 |
| NSD05    | 5       | 9.2 ~ 36<br>18 ~ 72 | 1200                      | 1000 |      | 420  | 330  |      | ABCEIQTV  | 1.6"x 1"x 0.327"         | CB CE       | 2               |
| NSD10-S  | 10      | 9.8 ~ 36<br>22 ~ 72 | 2500                      | 2000 | 1100 | 830  | 670  |      | ABCEIQTV  | 2"x 1"x 0.394"           | UL US CE    | 2               |
| NSD15-S  | 15      | 9.4 ~ 36<br>18 ~ 72 | 3750                      | 3000 |      | 1250 | 1000 |      | ABCFIQSTV | 2"x 1.5"x 0.387"         | UL US CE    | 2               |
| NID30    | 30      | 20 ~ 53<br>30 ~ 53  |                           | 2500 |      | 2500 | 2000 | 1250 | ABCJQV    | 2"x 0.512"x 0.421"       |             | 2               |
| NID60    | 60      | 20 ~ 53<br>30 ~ 53  |                           | 4000 |      | 4000 | 4000 | 2500 | ABCJQV    | 2"x 1.024"x 0.421"       |             | 2               |

**[ Dual Output ]**

| Series                                                                                    | Wattage | Input (VDC)         | Output Rated Current (mA) |           |           | Features  | Dimension (LxWxH) (inch) | Safety/EMC | Warranty (Year) |
|-------------------------------------------------------------------------------------------|---------|---------------------|---------------------------|-----------|-----------|-----------|--------------------------|------------|-----------------|
|                                                                                           |         |                     | 5V                        | 12V       | 15V       |           |                          |            |                 |
| NSD10-D  | 10      | 9.8 ~ 36<br>22 ~ 72 | ±50 ~ 1000                | ±20 ~ 420 | ±16 ~ 330 | ABCEIQTV  | 2"x 1"x 0.394"           | UL US CE   | 2               |
| NSD15-D  | 15      | 9.4 ~ 36<br>18 ~ 72 | ±70 ~ 1500                | ±30 ~ 620 | ±20 ~ 500 | ABCFIQSTV | 2"x 1.5"x 0.387"         | UL US CE   | 2               |

## ► Open Frame Type

**[ Single Output ]**

| Series                                                                                     | Wattage | Input (VDC)                    | Output Rated Current (A) |      |       | Features | Dimension (LxWxH) (mm) | Safety/EMC | Warranty (Year) |
|--------------------------------------------------------------------------------------------|---------|--------------------------------|--------------------------|------|-------|----------|------------------------|------------|-----------------|
|                                                                                            |         |                                | 5V                       | 12V  | 24V   |          |                        |            |                 |
| PSD-05  | 5       | 36 ~ 72                        | 1                        | 0.45 | 0.22  | ABCDGQT  | 75x 40x 20             | CE         | 2               |
| PSD-15  | 15      | 9.2 ~ 18<br>18 ~ 36<br>36 ~ 72 | 3                        | 1.25 | 0.6   | ABCDGQT  | 94x 49x 25             | CE         | 2               |
| PSD-30  | 30      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72   | 5                        | 2.5  | 1.25  | ABCFQTY  | 101.6x 50.8x 30        | CE         | 2               |
| PSD-45  | 45      | 9.2 ~ 18                       | 6                        | 2.5  | 1.25  | ABCFQTY  | 127x 76x 30            | CB CE      | 2               |
|                                                                                            |         | 18 ~ 36<br>36 ~ 72             | 9                        | 3.75 | 1.875 |          |                        |            |                 |

**Features:** A - Short circuit protection  
B - Overload protection  
C - Over voltage protection  
D - Over temperature protection  
E - 1000VDC I/O isolation  
F - 1500VDC I/O isolation  
G - 2000VDC I/O isolation  
H - 3000VDC I/O isolation  
I - 4:1 wide input range

J - Single in line package  
K - Dual in line package  
L - Internal SMD technology  
M - SMD package style  
N - Non-conductive plastic case  
O - Five-sided shield metal case  
P - Six-sided shield metal case  
Q - Cooling by free air convection  
R - Cooling by built-in fan

S - Trimming output  
T - Built-in EMI filter  
U - Remote sense  
V - Remote control  
W - Output OK signal  
X - 4000VDC I/O isolation  
Y - Input reverse polarity  
(□ optional function)

## ► Module Type

[ Single Output ]

| Series | Wattage | Input<br>(VDC)                                         | Output Rated Current (mA) |      |          |              |              |     | Features    | Dimension<br>(LxWxH) (inch) | Safety/<br>EMC | Warranty<br>(Year) |
|--------|---------|--------------------------------------------------------|---------------------------|------|----------|--------------|--------------|-----|-------------|-----------------------------|----------------|--------------------|
|        |         |                                                        | 3.3V                      | 5V   | 9V       | 12V          | 15V          | 24V |             |                             |                |                    |
| SRS    | 0.5     | 4.5 ~ 5.5<br>10.8 ~ 13.2<br>21.6 ~ 26.4<br>43.2 ~ 52.8 |                           | 100  | 56       | 42           | 34           |     | ABEKLNQ     | 0.89"x 0.39"x 0.33"         | CE FC          | 2                  |
| SUS01  | 1       | 4.5 ~ 5.5<br>10.8 ~ 13.2<br>21.6 ~ 26.4<br>43.2 ~ 52.8 |                           | 200  | 111      | 84           | 67           |     | ABEKLNQ     | 0.89"x 0.39"x 0.33"         | CE FC          | 2                  |
| SBT01  | 1       | 4.5 ~ 5.5<br>10.8 ~ 13.2                               |                           | 200  | 111      | 84           | 67           |     | ABELMNQ     | 0.50"x 0.30"x 0.24"         | UL US          | 1                  |
| SFT01  | 1       | 4.5 ~ 5.5<br>10.8 ~ 13.2                               |                           | 200  | 111<br>X | 84           | 67           |     | ABHLMNQ     | 0.60"x 0.295"x 0.24"        | UL US          | 1                  |
| SPR01  | 1       | 4.5 ~ 5.5<br>10.8 ~ 13.2<br>21.6 ~ 26.4<br>43.2 ~ 52.8 |                           | 200  | 100      | 84           | 67           |     | ABEJLNQ     | 0.77"x 0.28"x 0.40"         | CE FC          | 2                  |
| SMU01  | 1       | 4.5 ~ 5.5<br>10.8 ~ 13.2<br>21.6 ~ 26.4                |                           | 200  | 110      | 84           | 67           |     | ABF H JLNQ  | 0.46"x 0.24"x 0.40"         | CE FC          | 2                  |
| SMA01  | 1       | 4.5 ~ 5.5<br>10.8 ~ 13.2<br>21.6 ~ 26.4                |                           | 200  | 110      | 84           | 67           |     | ABF H KLNQ  | 0.50"x 0.40"x 0.28"         | CE FC          | 2                  |
| SPU02  | 2       | 4.5 ~ 5.5<br>10.8 ~ 13.2<br>21.6 ~ 26.4                |                           | 400  |          | 167          | 133          |     | ABHJLNQ     | 0.77"x 0.28"x 0.40"         | CE FC          | 2                  |
| SPA02  | 2       | 4.5 ~ 9<br>9 ~ 18<br>18 ~ 36<br>36 ~ 72                |                           | 400  |          | 150<br>167   | 120<br>133   |     | ABE H JNQTV | 0.86"x 0.36"x 0.44"         | CE FC          | 2                  |
| SPU03  | 3       | 4.5 ~ 5.5<br>10.8 ~ 13.2<br>21.6 ~ 26.4                |                           | 600  |          | 250          | 200          |     | ABHJLNQ     | 0.77"x 0.30"x 0.40"         | CE FC          | 2                  |
| SPB03  | 3       | 4.5 ~ 9<br>9 ~ 18<br>18 ~ 36<br>36 ~ 72                |                           | 600  |          | 250          | 200          |     | ABEJNQTV    | 0.86"x 0.36"x 0.44"         | CE FC          | 2                  |
| SCW03  | 3       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 600  |          | 250          | 200          |     | ABE H IOQT  | 1.25"x 0.80"x 0.48"         | CE FC          | 2                  |
| SCW05  | 5       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 1000 | 556      | 470          | 400          |     | ABE H IOQT  | 1.25"x 0.80"x 0.48"         | CE FC          | 2                  |
| SLW05  | 5       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 1000 | 556      | 417          | 333          |     | ABE H IPQT  | 2"x 1"x 0.44"               | CE FC          | 2                  |
| SPB05  | 5       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 1000 |          | 417          | 333          |     | ABFJNQTV    | 0.86"x 0.36"x 0.44"         | CE FC          | 2                  |
| SCW08  | 8       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 1600 |          | 670          | 533          |     | ABEQQT      | 1.25"x 0.80"x 0.48"         | CE FC          | 2                  |
| SKE10  | 10      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 2000 |          | 840          | 666          | 420 | ABE H IPQT  | 2"x 1"x 0.44"               | CE FC          | 2                  |
| SCW12  | 12      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 2400 |          | 1000         | 800          |     | ABFOQTV     | 1.25"x 0.80"x 0.48"         | CE FC          | 2                  |
| SKM15  | 15      | 9 ~ 18<br>18 ~ 36<br>36 ~ 75                           |                           | 3000 |          | 1250         | 1000         |     | ABCFPQSTV   | 1"x 1"x 0.39"               | CE FC          | 2                  |
| SKA15  | 15      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           | 3000                      | 3000 |          | 1250         | 1000         |     | ABE H IPQT  | 2"x 1"x 0.44"               | CE FC          | 2                  |
| SKE15  | 15      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           |                           | 3000 |          | 1250         | 1000         | 625 | ABE H IPQT  | 2"x 2"x 0.43"               | CE FC          | 2                  |
| SKA20  | 20      | 9 ~ 18<br>18 ~ 36<br>36 ~ 75                           |                           | 4000 |          | 1666         | 1333         |     | ABCFPQSTV   | 2"x 1"x 0.44"               | CE FC          | 2                  |
| SKM30  | 30      | 9 ~ 18<br>18 ~ 36<br>36 ~ 75                           |                           | 6000 |          | 2500         | 2000         |     | ABCFPQSTV   | 2"x 1"x 0.44"               | CE FC          | 2                  |
| SDM30  | 30      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72                           | 5000                      | 5000 |          | 2100<br>2500 | 1700<br>2000 |     | ABCEOQSTV   | 2"x 2"x 0.63"               | CE             | 2                  |

[ Single Output ]

| Series                                                                                   | Wattage | Input (VDC)                  | Output Rated Current (A) |    |    |      |      |      | Features   | Dimension (LxWxH) (inch) | Safety/ EMC | Warranty (Year) |
|------------------------------------------------------------------------------------------|---------|------------------------------|--------------------------|----|----|------|------|------|------------|--------------------------|-------------|-----------------|
|                                                                                          |         |                              | 3.3V                     | 5V | 9V | 12V  | 15V  | 24V  |            |                          |             |                 |
| SKA40   | 40      | 9 ~ 18<br>18 ~ 36<br>36 ~ 75 |                          | 7  |    | 3.33 | 2.67 |      | ABCFPQSTUV | 2"x 2"x 0.43"            | CE FC       | 2               |
| SKM50   | 50      | 18 ~ 36<br>36 ~ 75           |                          | 10 |    | 4.17 | 3.33 |      | ABCFPQSTV  | 2"x 1"x 0.54"            | CE FC       | 2               |
| SKA60   | 60      | 9 ~ 18<br>18 ~ 36<br>36 ~ 75 |                          | 12 |    | 5    | 4    |      | ABCFPQSTUV | 2"x 2"x 0.43"            | CE FC       | 2               |
| MHB75   | 75      | 9 ~ 18<br>18 ~ 36<br>36 ~ 75 |                          | 15 |    | 6.25 |      | 3.13 | ABCDFOQSUV | 2.28"x 2.4"x 0.5"        | UL CE       | 3               |
| MHB100  | 100     | 18 ~ 36<br>36 ~ 75           |                          | 20 |    | 8.3  |      | 4.17 | ABCDFOQSUV | 2.28"x 2.4"x 0.5"        | UL CE       | 3               |
| MHB150  | 150     | 36 ~ 75                      |                          | 30 |    | 12.5 |      | 6.25 | ABCDFOQSUV | 2.28"x 2.4"x 0.5"        | UL CE       | 3               |

► Module Type

[ Dual Output ]

| Series                                                                                    | Wattage | Input (VDC)                  | Output Rated Current (mA) |           |          |          |       |      | Features  | Dimension (LxWxH) (inch) | Safety/EMC | Warranty (Year) |
|-------------------------------------------------------------------------------------------|---------|------------------------------|---------------------------|-----------|----------|----------|-------|------|-----------|--------------------------|------------|-----------------|
|                                                                                           |         |                              | 3.3V                      | 5V        | 9V       | 12V      | 15V   | 24V  |           |                          |            |                 |
| DET01    | 1       | 4.5 ~ 5.5<br>10.8 ~ 13.2     |                           | ±100<br>X | ±56<br>X | ±42<br>X | ±33   |      | ABHLMNQ   | 0.6"x 0.295"x 0.24"      | UL         | 1               |
| DCW03    | 3       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±300      |          | ±125     | ±100  |      | ABEHIQQT  | 1.25"x 0.8"x 0.48"       | CE FC      | 2               |
| DCW05   | 5       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±500      |          | ±230     | ±190  |      | ABEHIQQT  | 1.25"x 0.8"x 0.48"       | CE FC      | 2               |
| DLW05  | 5       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±500      |          | ±208     | ±167  |      | ABEHIPTQT | 2"x 1"x 0.44"            | CE FC      | 2               |
| DCW08  | 8       | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±800      |          | ±335     | ±267  |      | ABEQQT    | 1.25"x 0.8"x 0.48"       | CE FC      | 2               |
| DKE10  | 10      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±1000     |          | ±420     | ±333  | ±210 | ABEHIPTQT | 2"x 1"x 0.44"            | CE FC      | 2               |
| DCW12  | 12      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±1200     |          | ±500     | ±400  |      | ABFOQTV   | 1.25"x 0.8"x 0.48"       | CE FC      | 2               |
| DKA15  | 15      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±1500     |          | ±625     | ±500  |      | ABEHIPTQT | 2"x 1"x 0.44"            | CE FC      | 2               |
| DKE15  | 15      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±1500     |          | ±625     | ±500  | ±313 | ABEHIPTQT | 2"x 2"x 0.43"            | CE FC      | 2               |
| DKA30  | 30      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | ±2500     |          | ±1250    | ±1000 |      | ABEIPQSTV | 2"x 2"x 0.82"            | CE FC      | 2               |

[ Triple Output ]

| Model                                                                                       | Wattage | Input (VDC)                  | Output Rated Current (mA) |      |    |      |      |     | Features | Dimension (LxWxH) (inch) | Safety/ EMC | Warranty (Year) |
|---------------------------------------------------------------------------------------------|---------|------------------------------|---------------------------|------|----|------|------|-----|----------|--------------------------|-------------|-----------------|
|                                                                                             |         |                              | 3.3V                      | 5V   | 9V | 12V  | 15V  | 24V |          |                          |             |                 |
| TKA30-B  | 25      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | 3500 |    | ±310 |      |     | ABEIPQTV | 2"x 2"x 0.82"            | CE FC       | 2               |
| TKA30-C  | 25      | 9 ~ 18<br>18 ~ 36<br>36 ~ 72 |                           | 3500 |    |      | ±250 |     | ABEIPQTV | 2"x 2"x 0.82"            | CE FC       | 2               |

## ► Enclosed Type

【 Single Output 】

| Series                                                                                                | Wattage | Input<br>(VDC)                 | Output Rated Current (A) |      |       |      | Features                 | Dimension<br>(LxWxH) (mm) | Safety / EMC                                                                                                                         | Warranty<br>(Year) |
|-------------------------------------------------------------------------------------------------------|---------|--------------------------------|--------------------------|------|-------|------|--------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                                                                                                       |         |                                | 5V                       | 12V  | 24V   | 48V  |                          |                           |                                                                                                                                      |                    |
| <b>SD-15</b><br>     | 15      | 9.2 ~ 18<br>18 ~ 36<br>36 ~ 72 | 3                        | 1.25 | 0.625 |      | <b>ABCGQT</b>            | 78x 51x 28                | <b>CE</b>                                                                                                                            | 2                  |
| <b>SD-25</b><br>     | 25      | 9.2 ~ 18<br>19 ~ 36<br>36 ~ 72 | 5                        | 2.1  | 1.1   |      | <b>ABCFQT</b>            | 99x 97x 36                | <b>CE</b>                                                                                                                            | 2                  |
| <b>SD-50</b><br>     | 50      | 9.2 ~ 18<br>19 ~ 36<br>36 ~ 72 | 10                       | 4.2  | 2.1   |      | <b>ABCFQT</b>            | 159x 97x 38               | <b>CE</b>                                                                                                                            | 2                  |
| <b>SD-100</b><br>    | 100     | 19 ~ 36<br>36 ~ 72<br>72 ~ 144 | 20                       | 8.5  | 4.2   |      | <b>ABCFQT</b>            | 199x 98x 38               | <b>CB CE</b><br>(D type)                                                                                                             | 2                  |
| <b>SD-150</b><br>    | 150     | 19 ~ 36<br>36 ~ 72<br>72 ~ 144 |                          | 12.5 | 6.3   |      | <b>ABCFQT</b>            | 199x 110x 50              | <b>CB CE</b><br>(D type)                                                                                                             | 2                  |
| <b>SD-200</b><br>    | 200     | 19 ~ 36<br>36 ~ 72<br>72 ~ 144 | 34<br>40                 | 16.7 | 8.4   | 4.2  | <b>ABCDFQT</b>           | 215x 115x 50              | <br>(SD-200C-24 only)<br><b>CB CE</b><br>(D type) | 2                  |
| <b>SD-350</b><br>  | 350     | 19 ~ 36<br>36 ~ 72<br>72 ~ 144 | 57<br>60                 | 27.5 | 14.6  | 7.3  | <b>ABCFRT</b>            | 215x 115x 50              | <b>CB CE</b><br>(D type)                                                                                                             | 2                  |
| <b>SD-500</b><br>  | 500     | 19 ~ 72<br>72 ~ 144            |                          | 40   | 21    | 10.5 | <b>ABCDGIR<br/>TUVWY</b> | 215x 115x 50              | <b>CB CE</b>                                                                                                                         | 3                  |
| <b>SD-1000</b><br> | 1000    | 19 ~ 72<br>72 ~ 144            |                          | 60   | 40    | 21   | <b>ABCDGIR<br/>TUVW</b>  | 295x 127x 41              | <b>CB CE</b>                                                                                                                         | 3                  |

## ► Railway

【 Single Output 】

| Series                                                                                                | Wattage | Input<br>(VDC)                                           | Output Rated Current (A) |            |              |            | Features       | Dimension<br>(LxWxH) (mm) | Safety / EMC           | Warranty<br>(Year) |
|-------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------|--------------------------|------------|--------------|------------|----------------|---------------------------|------------------------|--------------------|
|                                                                                                       |         |                                                          | 5V                       | 12V        | 24V          | 48V        |                |                           |                        |                    |
| <b>RSD-100</b><br> | 100     | 14.4 ~ 33.6<br>28.8 ~ 67.2<br>57.6 ~ 154                 | 20                       | 8.4        | 4.2          |            | <b>ABCQXY</b>  | 161x 68x 36               | <b>CE</b><br>(EN50155) | 3                  |
| <b>RSD-150</b><br> | 150     | 14.4 ~ 33.6<br>28.8 ~ 67.2<br>57.6 ~ 154                 | 30                       | 12.5       | 6.3          |            | <b>ABCDQXY</b> | 189x 77x 36               | <b>CE</b><br>(EN50155) | 3                  |
| <b>RSD-200</b><br> | 200     | 14.4 ~ 33.6<br>28.8 ~ 67.2<br>57.6 ~ 154                 |                          | 16.7       | 8.4          | 4.2        | <b>ABCDQXY</b> | 191x 86x 40               | <b>CE</b><br>(EN50155) | 3                  |
| <b>RSD-300</b><br> | 300     | 14.4 ~ 33.6<br>21.6 ~ 50.4<br>43.2 ~ 100.8<br>57.6 ~ 154 | 42                       | 22.5<br>25 | 11.3<br>12.5 | 5.7<br>6.3 | <b>ABCDQXY</b> | 216x 97x 40               | <b>CE</b><br>(EN50155) | 3                  |