

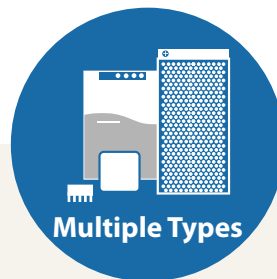
# DC-DC Converter Multi-Industry Power Solutions



## Why MEAN WELL DC-DC Converter

MEAN WELL, initially focused on AC/DC enclosed industrial power supplies, introduced the SD series of enclosed DC-DC power supplies in 1996 to meet market demand. Since then, we have expanded to offer a wide range of installation options, including board-mounted, encapsulated modules, and DIN rail models. Our DC-DC product line stands out for its industry-leading variety of installation methods, providing a comprehensive AC-DC and DC-DC power solution to meet one-stop sourcing needs.

MEAN WELL offers a comprehensive AC-DC and DC-DC solution, providing versatile installation options to meet diverse industry needs. For industrial automation, the SD series and small modules are highlighted, while the RSD and DDR series cater to railway-certified applications. The MDS and MDD series serve the medical sector, with DDRH and RSDH specialized for photovoltaic energy storage, and the LDD and NHDD series tailored for LED lighting. Moving forward, we will continue to expand into emerging sectors such as smart meters, smart homes, and data centers, further broadening our application range.



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### USA

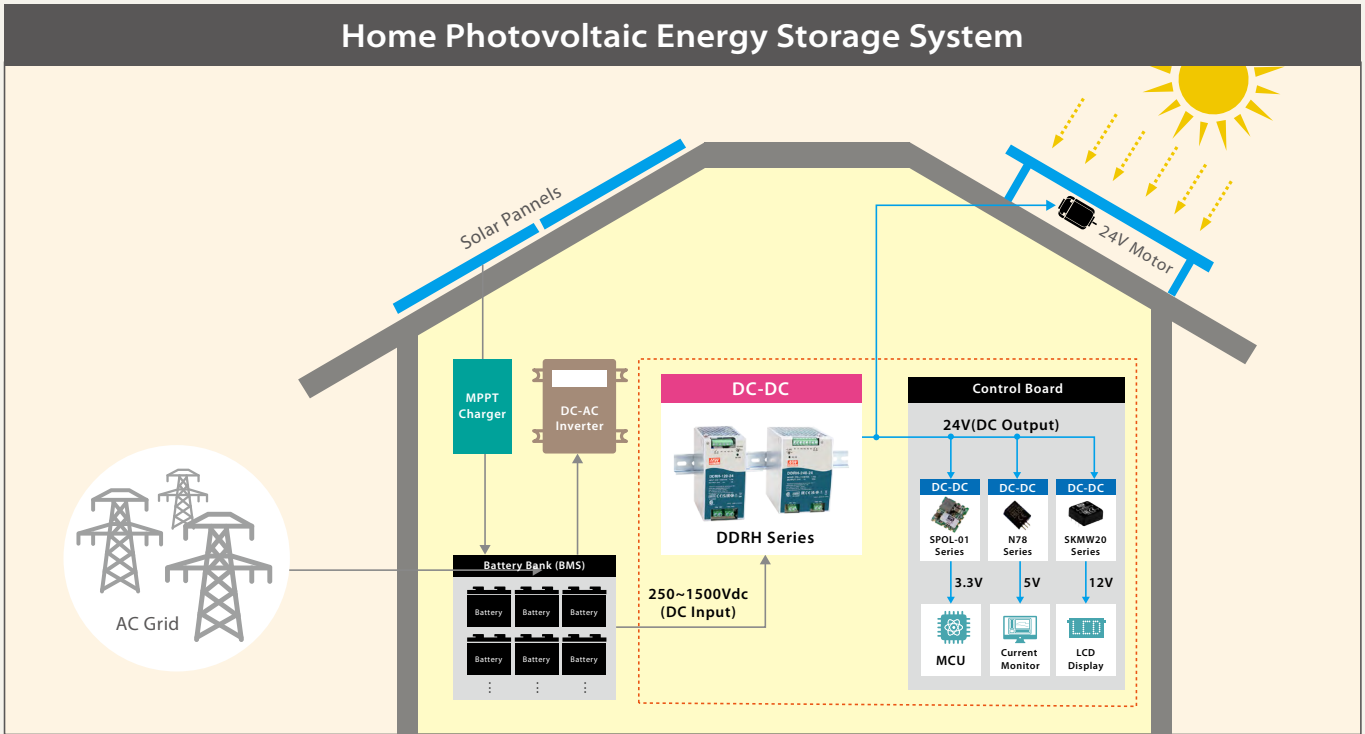
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In response to the growing demand for high-to-low voltage DC-DC converters driven by net-zero carbon goals, especially in photovoltaic, energy storage, and wind energy sectors, MEAN WELL offers the DDRH and RSDH series (15-300W) with multiple installation options.



## ■ Features

1. 150~1500Vdc or 250~1500Vdc ultra-wide voltage input (depends on the model), suitable for photovoltaic string or battery stack connections to high voltage.
2. Fanless design, internal potting or PCB conformal coating (depends on model), high reliability.

## ■ Compliant Certification

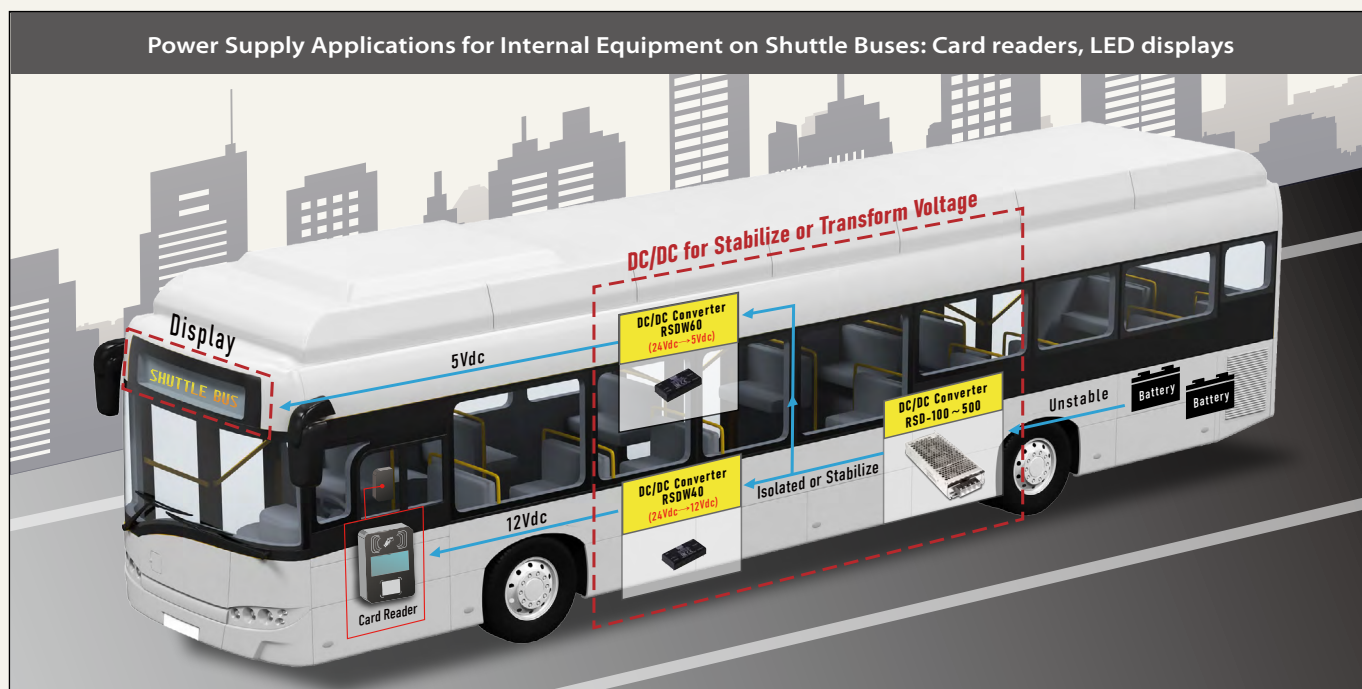
UL1741, EN62109-1

| Model    | Picture | Watt. | Vin (Vdc) | Vout (Vdc)         | Dimension (L x W x H mm)  | Spec. |
|----------|---------|-------|-----------|--------------------|---|-------|
| DDRH-15  |         | 15W   | 150~1500V | 5V, 12V, 15V, 24V  | P : 76.2 x 50.8 x 25<br>ST : 122.3 x 57.3 x 32<br>DR: 122.3 x 57.3 x 43.5 |       |
| DDRH-30  |         | 30W   |           | 12V, 15V, 24V, 48V | P : 89 x 63.5 x 25<br>ST : 135 x 70 x 32<br>DR: 135 x 70 x 43.5           |       |
| DDRH-45  |         | 45W   |           | 5V, 12V, 24V, 48V  | 57 x 93.5 x 105   |       |
| DDRH-60  |         | 60W   | 250~1500V | 5V, 12V, 24V, 48V  | 63 x 125.2 x 115  |       |
| DDRH-120 |         | 120W  |           | 12V, 24V, 32V, 48V | 85.5 x 125.2 x 129.2  |       |
| DDRH-240 |         | 240W  |           | 12V, 24V, 32V, 48V | 85.5 x 125.2 x 129.2  |       |
| RSDH-150 |         | 150W  | 250~1500V | 12V, 24V, 32V, 48V | 191 x 86 x 41   |       |
| RSDH-300 |         | 300W  |           | 12V, 24V, 32V, 48V | 237 x 86 x 41   |       |

# Power Solutions Railway Transportation Applications



MEAN WELL's railway DC-DC converters offer a full range of power outputs from 8 to 500 watts, available in various installation options, including board-mount encapsulated module types, wire-lock flat enclosure types, and wire-lock vertical DIN rail types that are all certified with the railway safety standard EN50155.



## ■ Features

Wide input range of 2:1, 4:1, and 18:1 (depends on the model)

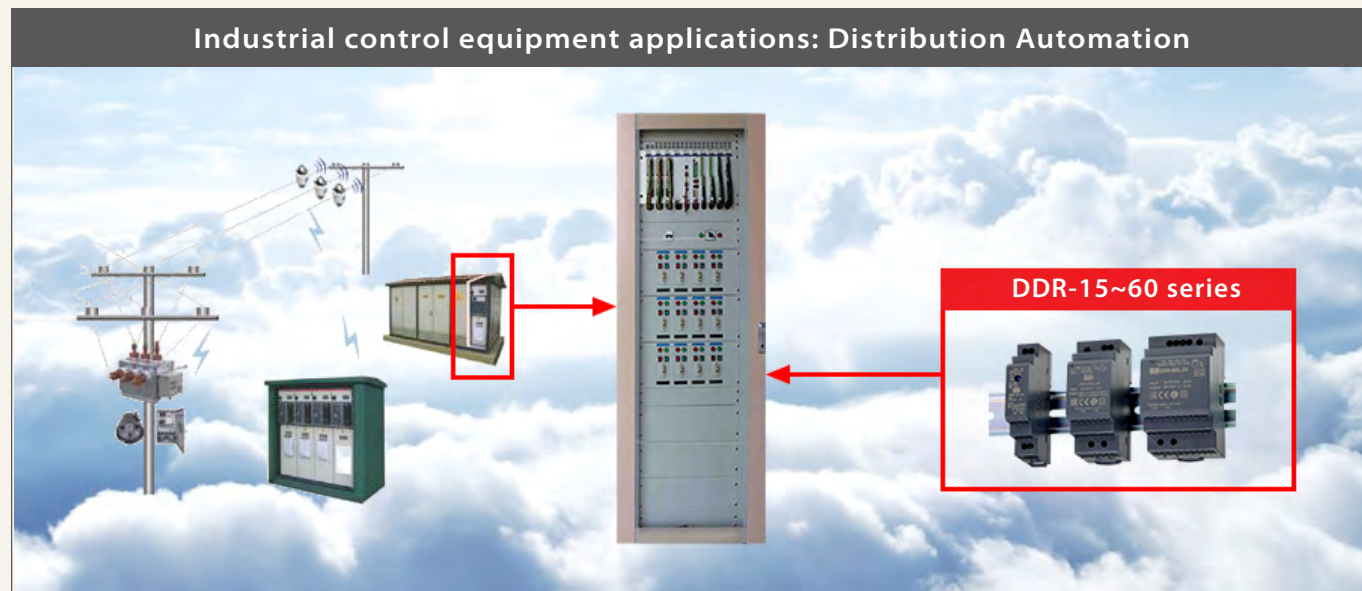
## ■ Compliant Certification

EN50155

| Model     | Picture                      | Watt.                                      | Vin (Vdc)  | Vout (Vdc)                   | Dimension (L x W x H mm) | Spec. |
|-----------|------------------------------|--|--|------------------------------|--------------------------|-------|
| RSDW08    |                              | 8W   | 24V (9~36V), 48V (18~75V)                                    | 3.3V, 5V, 12V, 15V           | 31.8 x 20.3 x 10.2       |       |
| RDDW08    |                              |  |  | $\pm 5V, \pm 12V, \pm 15V$   |                          |       |
| RSDW10    |                              | 10W  | 110V (43~160V)   | 3.3V, 5V, 12V, 15V           | 31.8 x 20.3 x 12.7       |       |
| RDDW10    |                              |  |  | $\pm 5V, \pm 12V, \pm 15V$   |                          |       |
| RSDW20    |                              | 20W  | 12V, 24V, 48V, 72V, 96V, 110V<br>(8.5~160V)                  | 3.3V, 5V, 12V, 15V           | 50.8 x 25.4 x 10.2       |       |
| RDDW20    |                              |  |  | $\pm 5V, \pm 12V, \pm 15V$   |                          |       |
| RSDW20UW  |                              |  |  | 5V, 12V, 15V                 |                          |       |
| RDDW20UW  |                              |  |  | $\pm 12V, \pm 15V, \pm 24V$  |                          |       |
| RSDW40    |                              | 40W  | 24V (9~36V), 48V (18~75V)<br>110V (40~160V)                  | 3.3V, 5V, 12V, 15V, 24V, 48V | 50.8 x 25.4 x 10.5       |       |
| RDDW40    |                              |  |  | $\pm 12V, \pm 15V$           |                          |       |
| RSDW60    | 3.3V, 5V, 12V, 15V, 24V, 48V |  |  |                              |                          |       |
| RDDW60    | 60W                          |  | $\pm 12V, \pm 15V$   |                              |                          |       |
| RQB40W12  | 40W                          | 24V, 36V, 48V, 72V, 96V, 110V<br>(14~160V) | 5V, 12V, 24V, 48V, 54V                                       | 57.9 x 36.8 x 12.7           |                          |       |
| RQB60W12  |                              |  |  |                              | 60W                      |       |
| RQB150W3  |                              |  |  |                              | 150W                     |       |
| RQB150W12 | 150W                         | 24V, 36V, 48V, 72V, 96V, 110V<br>(14~160V) | 12V, 24V, 48V, 54V   |                              |                          |       |
| RSD-30    |                              | 30W  | 9~36V, 18~72V, 40~160V                                       | 3.3V, 5V, 12V, 24V           | 113 x 60 x 25            |       |
| RSD-60    |                              | 60W  |  |                              | 128 x 60 x 25            |       |
| RSD-100   |                              | 100W                                       | 16.8~31.2V, 33.6~62.4V,<br>67.2~143V                         | 5V, 12V, 24V                 | 161 x 68 x 36            |       |
| RSD-150   |                              | 150W                                       |  |                              | 189 x 77 x 36            |       |
| RSD-200   |                              | 200W                                       |  | 12V, 24V, 48V                | 191 x 86 x 40            |       |
| RSD-300   |                              | 300W                                       | 16.8~31.2V, 33.6~62.4V, 67.2~143V,<br>25.2~46.8V, 50.4~93.6V | 5V, 12V, 24V, 48V            | 216 x 96.5 x 40          |       |
| RSD-500   | 500W                         | 16.8~33.6V, 33.6~67.2V, 67.2~154V          | 12V, 24V, 48V  | 237 x 100 x 41               |                          |       |
| DDR-120   |                              | 120W                                       | 9~18V, 16.8~33.6V, 33.6~67.2V,<br>67.2~154V                  | 12V, 24V, 48V                | 32 x 125.2 x 102         |       |
| DDR-240   |                              | 240W                                       | 16.8~33.6V, 33.6~67.2V,<br>67.2~154V                         | 24V, 48V                     | 40 x 125.2 x 113.5       |       |
| DDR-480   |                              | 480W                                       |  | 12V, 24V, 48V                | 85.5 x 125.2 x 129.2     |       |



MEAN WELL offers a wide range of power supplies from 0.5W to 1000W, covering four installation types: enclosed, DIN rail, board-mounted, and plug-in. Input voltage options include  $\pm 10\%$ , 2:1, 4:1, and 8:1, with single, dual, or triple output configurations. With over 1,000 models available, these solutions are ideal for electronic instruments, ICT equipment, and other applications.



## Features

1.  $\pm 10\%$ , 2:1, 4:1, 8:1 various input voltages
2. Four types of mounting options available

## Compliant Certification

All Series: ITE62368-1  
 RSD-30~300, DDR-120~480 Series:  
 ITE62368-1, EN50155

| Model   | Picture | Watt.                             | Vin (Vdc)   | Vout (Vdc)              | Dimension (L x W x H mm) | Spec. |
|---------|---------|-----------------------------------|---|-------------------------|--------------------------|-------|
| SD-15   |         | 15W                               | 9.2~18V, 18~36V, 36~72V   | 5V, 12V, 24V            | 78 x 51 x 28             |       |
| SD-25   |         | 25W                               |   |                         | 99 x 97 x 36             |       |
| SD-50   |         | 50W                               |   |                         | 159 x 97 x 38            |       |
| SD-100  |         | 100W                              | 9.5~18V, 19~36V, 36~72V, 72~144V                                | 199 x 98 x 38           |                          |       |
| SD-150  |         | 150W                              | 12V, 24V  | 199 x 110 x 50          |                          |       |
| SD-200  |         | 200W                              | 19~36V, 36~72V, 72~144V   | 5V, 12V, 24V, 48V       | 215 x 115 x 50           |       |
| SD-350  |         | 350W                              |   |                         |                          |       |
| SD-500  |         | 500W                              |   | 12V, 24V, 48V           | 295 x 127 x 41           |       |
| SD-1000 |         | 1000W                             |   | 12V, 24V, 48V           |                          |       |
| RSD-30  |         | 30W                               | 9~36V, 18~72V, 40~160V  | 3.3V, 5V, 12V, 24V      | 113 x 60 x 25            |       |
| RSD-60  |         | 60W                               |   |                         | 128 x 60 x 25            |       |
| RSD-100 |         | 100W                              | 16.8 ~ 31.2V, 33.6 ~ 62.4V, 67.2 ~ 143V                         | 5V, 12V, 24V            | 161 x 68 x 36            |       |
| RSD-150 |         | 150W                              |   |                         | 189 x 77 x 36            |       |
| RSD-200 |         | 200W                              | 12V, 24V, 48V   | 191 x 86 x 40           |                          |       |
| RSD-300 |         | 300W                              | 16.8 ~ 31.2V, 33.6 ~ 62.4V, 67.2 ~ 143V, 25.2~46.8V, 50.4~93.6V | 5V, 12V, 24V, 48V       | 216 x 96.5 x 40          |       |
| RSD-500 | 500W    | 16.8~33.6V, 33.6~67.2V, 67.2~154V | 12V, 24V, 48V   | 237 x 100 x 41          |                          |       |
| DDR-15  |         | 15W                               | 9~36V, 18~75V   | 3.3V, 5V, 12V, 15V, 24V | 17.5 x 90 x 54.5         |       |
| DDR-30  |         | 30W                               |   | 5V, 12V, 15V, 24V       | 35 x 90 x 54.5           |       |
| DDR-60  |         | 60W                               | 52.5 x 90 x 54.5  |                         |                          |       |
| DDR-120 |         | 120W                              | 9~18V, 16.8~33.6V, 33.6~67.2V, 67.2~154V                        | 12V, 24V, 48V           | 32 x 125.2 x 102         |       |
| DDR-240 |         | 240W                              | 16.8~33.6V, 33.6~67.2V, 67.2~154V                               | 24V, 48V                | 40 x 125.2 x 113.5       |       |
| DDR-480 |         | 480W                              |   | 12V, 24V, 48V           | 85.5 x 125.2 x 129.2     |       |
| PSD-15  |         | 15W                               | 9.2~18V, 18~36V, 36~72V   | 5V, 12V, 24V            | 94 x 49 x 25             |       |
| PSD-30  |         | 30W                               | 9~18V, 18~36V, 36~72V   |                         | 101.6 x 50.8 x 30        |       |
| PSD-45  |         | 45W                               | 9.2~18V, 18~36V, 36~72V   |                         | 127 x 76 x 30            |       |



| Model    | Picture | Watt.            | Package               | Vin (Vdc)                                       | Vout (Vdc)                               | Dimension (L x W x H mm) | Spec. |                    |
|----------|---------|------------------|-----------------------|---|--|--------------------------|-------|--------------------|
| NSD05-S  |         | 5W               | -----                 | 9.2~36V, 18~72V                                 | 3.3V, 5V, 12V, 15V                       | 40.6 x 25.4 x 8.3        |       |                    |
| NSD10-S  |         | 10W              |                       | 9.8~36V, 22~72V                                 | 3.3V, 5V, 9V, 12V, 15V                   | 50.8 x 25.4 x 10         |       |                    |
| NSD10-D  |         |                  |                       |   |  | ±5V, ±12V, ±15V          |       |                    |
| NSD15-S  |         | 15W              |                       | 9.4~36V, 18~72V                                 | 3.3V, 5V, 12V, 15V                       | 50.8 x 38.1 x 9.82       |       |                    |
| NSD15-D  |         |                  |                       |   |  | ±5V, ±12V, ±15V          |       |                    |
| NID35    |         | 35W              |                       | 10.5~53V, 20~53V, 30~53V                        | 4.2V, 5V, 12V, 15V, 24V                  | 50.8 x 13 x 11           |       |                    |
| NID65    |         | 65W              |                       |   |  | 50.8 x 26 x 11           |       |                    |
| NID100   | 100W    | 50.8 x 27.5 x 12 |                       |   |  |                          |       |                    |
| SBTN01   |         | 1W               | SMD                   | 3.3V, 5V, 12V, 24V ±10%                         | 3.3V, 5V, 9V, 12V, 15V                   | 12.9 x 10.9 x 7.1        |       |                    |
| SBTN01-N |         |                  |                       | 5V, 12V, 24V ±10%                               | 5V, 12V, 15V                             |                          |       |                    |
| SFTN01   |         | 1W               |                       | 5V, 12V, 24V ±10%                               | 5V, 9V, 12V, 15V                         | 15.24 x 10.7 x 7.1       |       |                    |
| SFTN01-N |         |                  |                       |   |  |                          |       |                    |
| SFTN02   |         | 2W               |                       | 5V, 12V, 15V                                    | 15.24 x 10.9 x 7.1                       |                          |       |                    |
| SFTN02-N |         |                  |                       |   | 15.24 x 10.9 x 9.1                       |                          |       |                    |
| DETN01   |         | 1W               |                       | 5V, 12V, 24V ±10%                               | ±5V, ±12V, ±15V                          | 15.24 x 10.9 x 7.1       |       |                    |
| DETN01-N |         |                  |                       |   |  |                          |       |                    |
| DETN02   |         | 2W               |                       |   |  |                          |       |                    |
| DETN02-N |         |                  |                       | 15.24 x 10.9 x 9.1                              |  |                          |       |                    |
| SPOL-01  | 5.5W    | 3~14V            | 0.9~5.5V (adjustable) | 12.4 x 12.4 x 4                                 |  |                          |       |                    |
| SPOL-12  | 66W     | 3~14.4V          | 0.6~5.5V (adjustable) | 12.19 x 12.19 x 3.1                             |  |                          |       |                    |
| N78      |         | 1A               | 6~36V, 20~36V         | 3.3V, 9V, ±5V, ±12V, ±15V                       | 10.5 x 7.5 x 16<br>11.5 x 9.0 x 17.5     |                          |       |                    |
| N78-2    |         | 2A               |                       | 1.8V, ±2.5V, ±3.3V, ±5V, ±6.5V, ±9V, ±12V, ±15V | 11.5 x 9.0 x 17.5                        |                          |       |                    |
| SMU01    |         | 1W               | 5V, 12V, 24V ±10%     | 5V, 9V, 12V, 15V                                | 11.6 x 6.1 x 10.14<br>11.6 x 7.4 x 10.14 |                          |       |                    |
| SMU02    |         | 2W               |                       | 5V, 12V, 15V                                    | 11.6 x 7.5 x 10.14                       |                          |       |                    |
| GD2      |         | 2W               | 12V, 15V, 24V ±10%    | -3V, -3.5V, -5V, -9V, -15V, 15V, 17V, 18V, 20V  | 19.5 x 9.8 x 12.5                        |                          |       |                    |
| SPU01    |         | 1W               | SIP                   | 5V, 12V, 24V ±10%                               | 5V, 12V, 15V                             | 19.5 x 6.1 x 10.2        |       |                    |
| DPU01    |         |                  |                       |   | ±5V, ±12V, ±15V                          | 19.5 x 7.2 x 10.2        |       |                    |
| SPUN02   |         | 2W               |                       |   | 5V, 12V, 15V                             | 19.6 x 7.2 x 10.2        |       |                    |
| DPUN02   |         |                  |                       |   |  |                          |       | ±5V, ±12V, ±15V    |
| SPU03    |         | 3W               |                       |   | 5V, 12V, 15V                             | 19.6 x 7.5 x 10.2        |       |                    |
| SPRN01   |         | 1W               |                       |   | 5V, 12V, 24V, 48V ±10%                   | 5V, 12V, 15V             |       | 19.6 x 7.1 x 10.14 |
| DPRN01   |         |                  |                       |   |  | ±12V, ±15V               |       |                    |
| SPA01    |         |                  |                       |   | 9~18V, 18~36V, 36~75V                    | 5V, 12V, 15V             |       | 17.4 x 7.75 x 11.1 |
| SPAN02   |         | 2W               |                       |   | 4.5~9V, 9~18V, 18~36V, 36~75V            | 3.3V, 5V, 12V, 15V       |       | 21.8 x 9.2 x 11.1  |
| DPAN02   |         |                  |                       |   |  | ±5V, ±12V, ±15V          |       |                    |
| SPBW03   | 3W      | 9~36V, 18~75V    | 3.3V, 5V, 12V, 15V    | 21.8 x 9.2 x 11.1                               |  |                          |       |                    |
| DPBW03   |         |                  | ±5V, ±12V, ±15V       |   |  |                          |       |                    |
| SPBW06   | 6W      |                  | 3.3V, 5V, 12V, 15V    |   |  |                          |       |                    |
| DPBW06   |         |                  | ±5V, ±12V, ±15V       |   |  |                          |       |                    |
| SPB09    | 9W      |                  | 9~18V, 18~36V, 36~75V |   | 3.3V, 5V, 12V, 15V                       | 24 x 9.6 x 11.2          |       |                    |
| DPB09    |         |                  |                       |   | ±5V, ±12V, ±15V                          |                          |       |                    |



| Model   | Picture   | Watt.   | Package                    | Vin (Vdc)                        | Vout (Vdc)          | Dimension (L x W x H mm) | Spec.   |                             |
|---------|---|---|----------------------------|----------------------------------|---------------------|--------------------------|---|-----------------------------|
| SRS     |    | 0.5W  | DIP                        | 5V, 12V, 24V, 48V<br>±10%        | 5V, 9V, 12V, 15V    | 12.7 x 10.16 x 7.1       |    |                             |
| SUS01   |   | 1W  |                            |                                  |                     | 22.6 x 9.9 x 8.4         |   |                             |
| SMA01   |   |   |                            |                                  |                     | 5V, 9V, 12V, 15V         |   | 12.7 x 10.16 x 7.62         |
| SLC03   |    | 3W  |                            | 9~18V, 18~36V,<br>36~75V         | 5V, 12V, 15V        | 22.1 x 13.8 x 8.55       |   |                             |
| DLC03   |   |   |                            | ±5V, ±12V, ±15V                  |                     |                          |   |                             |
| SCWN03  |    | 3W  |                            | 4.5~9V, 9~18V,<br>18~36V, 36~72V | 3.3V, 5V, 12V, 15V  | 31.8 x 20.3 x 10.2       |   |                             |
| DCWN03  |   |   |                            |                                  | ±5V, ±12V, ±15V     |                          |   |                             |
| SCWN06  |   | 6W  |                            | 3.3V, 5V, 12V, 15V               |                     |                          |   |                             |
| DCWN06  |   |   |                            | ±5V, ±12V, ±15V                  |                     |                          |   |                             |
| SCW08   |   | 8W  |                            | 9~18V, 18~36V,<br>36~72V         | 5V, 12V, 15V        |                          |   | 31.8 x 20.3 x 12.2          |
| DCW08   |   |   |                            |                                  | ±5V, ±12V, ±15V     |                          |   |                             |
| SCW12   |   | 12W   |                            | 9~18V, 18~36V,<br>36~72V         | 5V, 12V, 15V        |                          |   | 31.8 x 20.3 x 12.2          |
| DCW12   |   |   |                            |                                  | ±5V, ±12V, ±15V     |                          |   |                             |
| SCW20   |   | 20W   |                            | 5V, 12V, 15V                     |                     |                          |   |                             |
| SI06W8  |   |  |                            | 6W                               | 9~75V               |                          |   | 3.3V, 5V, 9V, 12V, 15V, 24V |
| DI06W8  |   |   | ±5V, ±12V, ±15V            |                                  |                     |                          |   |                             |
| SKM10   |   |   | 10W                        | 4.7~9V, 9~18V,<br>18~36V, 36~75V | 3.3V, 5V, 12V, 15V  |                          | 25.4 x 25.4 x 10.2  |                             |
| DKM10   | ±5V, ±12V, ±15V   |   |                            |                                  |                     |                          |   |                             |
| SKMW15  | 15W   |   | 9~36V, 18~75V              | 3.3V, 5V, 12V, 15V               | 25.4 x 25.4 x 10.2  |                          |   |                             |
| DKMW15  |   |   |                            | ±5V, ±12V, ±15V                  |                     |                          |   |                             |
| SKMW20  | 20W   |   |                            | 3.3V, 5V, 12V, 15V               |                     |                          |   |                             |
| DKMW20  |   |   |                            | ±12V, ±15V                       |                     |                          |   |                             |
| SKMW30  | 30W   |   |                            | 3.3V, 5V, 12V, 15V               |                     | 25.4x 25.4x 10.5         |   |                             |
| DKMW30  |   |   |                            | ±12V, ±15V                       |                     |                          |   |                             |
| SKMW40  | 40W   |   | 3.3V, 5V, 12V, 15V, 24V    |                                  |                     |                          |   |                             |
| DKMW40  |   |   | ±12V, ±15V                 |                                  |                     |                          |   |                             |
| SLW05   |  | 5W  | 9~18V, 18~36V,<br>36~72V   | 5V, 9V, 12V, 15V                 | 50.8 x 25.4 x 11.27 |                          |   |                             |
| DLW05   |   |   |                            | ±5V, ±12V, ±15V                  |                     |                          |   |                             |
| SKE10   |   | 10W   | 5V, 12V, 15V, 24V          | 50.8 x 25.4 x 11.27              |                     |                          |   |                             |
| DKE10   |   |   | ±5V, ±12V, ±15V, ±24V      |                                  |                     |                          |   |                             |
| SKA15   |   | 15W   | 9~18V, 18~36V,<br>36~72V   | 3.3V, 5V, 12V, 15V               | 50.8 x 25.4 x 11.27 |                          |   |                             |
| DKA15   |   |   |                            | ±5V, ±12V, ±15V                  |                     |                          |   |                             |
| SKA20   |   | 20W   | 9~18V, 18~36V,<br>36~75V   | 5V, 12V, 15V                     | 50.8 x 25.4 x 11.2  |                          |   |                             |
| SKM30-N |   | 30W   | 9~36V, 18~75V              | 5V, 12V, 15V                     | 50.8 x 25.4 x 11.2  |                          |   |                             |
| DKM30-N |   |   |                            | ±12V, ±15V                       |                     |                          |   |                             |
| SKM50   |   | 50W   | 18~36V, 36~75V             | 5V, 12V, 15V                     | 50.8 x 25.4 x 13.7  |                          |   |                             |
| SKE15   |  | 15W   | 9~18V, 18~36V,<br>36~72V   | 5V, 12V, 15V, 24V                | 50.8 x 50.8 x 11    |                          |   |                             |
| DKE15   |   |   |                            | ±5V, ±12V, ±15V, ±24V            |                     |                          |   |                             |
| SDM30   |   | 30W   | 9.2~18V, 18~36V,<br>36~72V | 3.3V, 5V                         | 50.8 x 50.8 x 16    |                          |   |                             |
| DKA30   |   |   |                            | ±5V, ±12V, ±15V                  | 50.8 x 50.8 x 21    |                          |   |                             |
| TKA30   |   | 40W   | 9.2~18V, 18~36V,<br>36~75V | 5V, ±12V, 5V, ±15V               | 50.8 x 50.8 x 11    |                          |   |                             |
| SKA40   |   |   |                            | 5V, 12V, 15V                     |                     |                          |   |                             |
| SKA60   | 60W   | 5V, 12V, 15V  |                            |                                  |                     |                          |   |                             |
| MHB75   |  | 75W   | 1/2<br>Brick               | 9.2~18V, 18~36V,<br>36~75V       | 5V, 12V, 24V        | 57.9 x 61 x 12.7         |  |                             |
| MHB100  |   | 100W  |                            | 18~36V, 36~75V                   |                     |                          |   |                             |
| MHB150  |   | 150W  |                            | 36~75V                           |                     |                          |   |                             |



MEAN WELL entered the market of medical power supply in 2000 and currently ranks eighth globally in market share. Offer around 500 models of AC-DC and DC-DC power supplies, ranging from 1 to 1000W. Notably, the DC-DC medical-grade converters include the single-output MDS Series and dual-output MDD Series, both available from 1 to 20W, all compliant with safety standards and known for their durability.

## Medical Auxiliary Equipment: Medical Grade Monitor






### ■ Features

1. SIP, DIP, 2" x 1" various packages, international standard pin configuration
2. Ultra-low patient leakage current <math>2 \sim 5\mu A</math> (depends on the model)
3. Input/output features 6KVdc or 4KVac high isolation

### ■ Compliant Certification

Medical 60601-1

| Model   | Picture   | Watt. | Vin (Vdc)                  | Vout (Vdc)                        | Isolation Voltage | Dimension (L x W x H mm) | Spec.   |
|---------|---|-------|----------------------------|-----------------------------------|-------------------|--------------------------|---|
| MDS01-N |  | 1W    | 5V(4.5~5.5V)               | 3.3V, 5V, 12V, 15V, ±5, ±12, ±15V | 6KVdc             | 19.7 x 7.1 x 11.5        |  |
| MDD01-N |   |       | 12V(10.8~13.2V)            |                                   |                   |                          |   |
| MDS02-N |   | 2W    | 24V(21.6~26.4V)            |                                   |                   |                          |   |
| MDD02-N |   |       |                            |                                   |                   |                          |   |
| MDS03   |  | 3W    | 12V, 48V(9~36V)            | 5V, 12V, 15V, ±5, ±12, ±15V       | 6KVdc/<br>4.2KVac | 31.8 x 20.3 x 12.2       |   |
| MDD03   |   |       | 24V, 48V(18~75V)           |                                   |                   |                          |   |
| MDS06   |   | 6W    | 12V, 24V(9~36V)            |                                   |                   |                          |   |
| MDD06   |   |       | 24V, 28V(18~75V)           |                                   |                   |                          |   |
| MDS15   |   | 15W   | 12V(9~18V)                 | 5V, 12V, 15V, 24V                 | 4KVdc             | 50.8 x 25.4 x 12         |   |
| MDS20   |   | 20W   | 24V(18~36V)<br>48V(36~75V) |                                   |                   |                          |   |

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# Power Solutions LED Lighting Applications



MEAN WELL offers LED lighting DC-DC converters that precisely regulate LED current to extend fixture lifespan and maintain consistent brightness and color uniformity. Our product line includes standard current models of 300mA, 350mA, 500mA, 600mA, 700mA, 1000mA, 1200mA, and 1400mA.



## ■ Features

1. Available models with either low voltage (<60Vdc) or high voltage (380Vdc) input
2. Built-in PWM dimming and remote control switch function
3. Two installation types: plug-in board or wired output

## ■ Compliant Certification

EN61347, EN55015

| Model    | Picture | Vin (Vdc)                                   | Vout       | Dimension (L x W x H mm)                          | Spec. |
|----------|---------|---|------------|---|-------|
| LDD-L    |         | L/LW : 3~32V<br>6~36V(1000mA)<br>LS : 2~28V | 300~1000mA | L/LW : 22.6 x 9.9 x 8.9<br>LS : 25.4 x 10.5 x 9.3 |       |
| LDD-H-DA |         | 6~50V                                       | 350~1400mA | 40.6 x 23.5 x 10.1                                |       |
| LDDS-H   |         | 12~56V                                      | 250~1000mA | 47 x 12 x 7                                       |       |
| LDB-L    |         | 9~36V                                       | 300~600mA  | 31.8 x 20.3 x 12.2                                |       |
| LDH-25   |         | 9.5~32V                                     | 250~700mA  | 52.4 x 27.2 x 24                                  |       |
| LDH-45   |         | 9~18/18~32V                                 | 350~1050mA | 75 x 53 x 22.7                                    |       |
| LDH-65   |         | 9.5~32V                                     | 700~1750mA |   |       |
| NLDD-H   |         | 10~56V                                      | 350~1400mA | 32.1 x 20.5 x 12.5                                |       |
| NHDD-40  |         | 360~420V                                    | 100mA      | 32.1 x 20.5 x 12.5                                |       |