

DMV-6W SERIES, 6WATT, 4:1 INPUT RANGE

FEATURES:

- ✓ 1500Vdc isolation voltage
- ✓ Metal case with low ripple and noise
- ✓ Short circuit and input under voltage protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



| Model | Input voltage (Vdc) | Output voltage (Vdc) | Output current (mA) | Efficiency Typ. | |
|------------|---------------------|----------------------|---------------------|-----------------|-----|
| DMV6W-2411 | 24(9~36) | 3.3 | 1500 | 78% | |
| DMV6W-2412 | | 5 | 1200 | 80% | |
| DMV6W-2416 | | 9 | 667 | 81% | |
| DMV6W-2413 | | 12 | 500 | 82% | |
| DMV6W-2414 | | 15 | 400 | 83% | |
| DMV6W-2415 | | 24 | 250 | 84% | |
| DMV6W-2421 | | ±5 | ±600 | 80% | |
| DMV6W-2424 | | ±9 | ±333 | 81% | |
| DMV6W-2422 | | ±12 | ±250 | 82% | |
| DMV6W-2423 | | ±15 | ±200 | 82% | |
| DMV6W-2425 | | ±24 | ±125 | 83% | |
| DMV6W-4811 | | 48(18~72) | 3.3 | 1500 | 78% |
| DMV6W-4812 | | | 5 | 1200 | 80% |
| DMV6W-4816 | | | 9 | 667 | 81% |
| DMV6W-4813 | | | 12 | 500 | 82% |
| DMV6W-4814 | 15 | | 400 | 82% | |
| DMV6W-4815 | 24 | | 250 | 83% | |
| DMV6W-4821 | ±5 | | ±600 | 80% | |
| DMV6W-4824 | ±9 | | ±333 | 81% | |
| DMV6W-4822 | ±12 | | ±250 | 82% | |
| DMV6W-4823 | ±15 | | ±200 | 83% | |
| DMV6W-4825 | ±24 | ±125 | 84% | | |

Notes: 1. Other input and output models may available on request;
2. Above items are default to metal case.

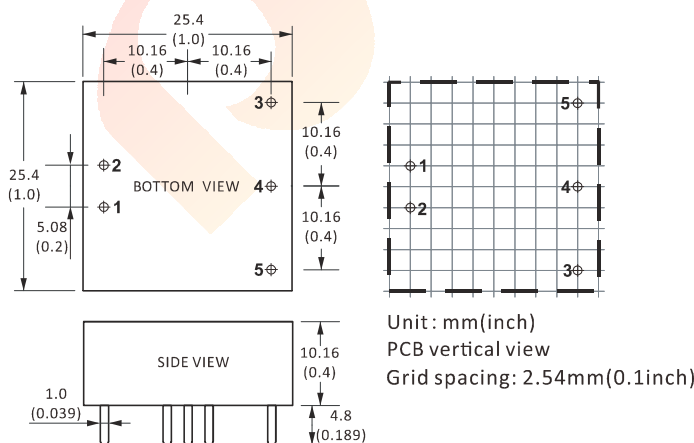
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ELECTRICAL

| | | |
|--|----------------------------|---------------------------|
| Output voltage accuracy (Full voltage, full load) | +Vo -Vo | ±2% max. ±3% max. |
| Line regulation | Nominal Load, full voltage | ±0.5% max. |
| Load regulation | 20% ~ 100% full load | ±1% max. |
| Ripple and noise | 20MHz BM, full load | 100mVp-p max. |
| Operating frequency | Typical value | 300KHz typ. |
| Isolation voltage (<1mA/min) | Input to output | 1500Vdc |
| Isolation resistance | --- | 1000mΩ |
| Temperature coefficient | --- | ±0.03%/°C max. |
| Operating temperature range | --- | -40°C to +85°C |
| Storage temperature range | --- | -55°C to +125°C |
| Short circuit protection | --- | Continuous, auto-recovery |
| Relative humidity | --- | 10%-90% max. |
| MTBF | Bellcore TR-332, 25°C | 1000KHrs |
| Weight | --- | 12g |

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



CONNECTION

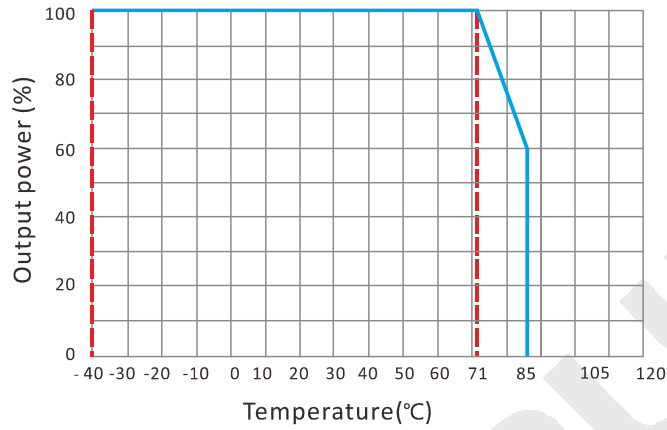
| PIN # | SINGLE | DUAL |
|-------|--------|------|
| 1 | GND | GND |
| 2 | +Vin | +Vin |
| 3 | +Vo | +Vo1 |
| 4 | No Pin | 0V |
| 5 | 0V | -Vo2 |

Note:

* Unit is mm(inch).

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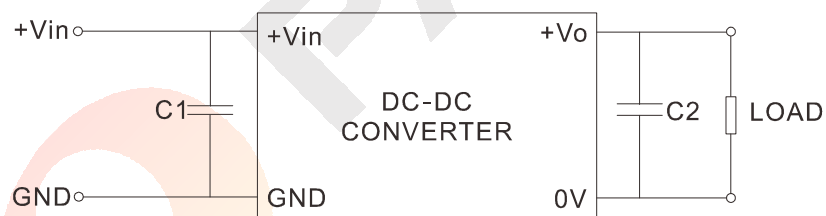
ELECTRICAL CURVE



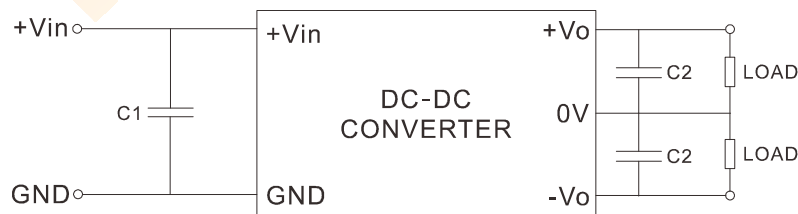
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



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NOTES
CAPACITOR SELECTION

| INPUT VOLTAGE | C1 | SINGLE OUTPUT | C2 | DUAL OUTPUT | C2 |
|----------------------|-------------|----------------------|--------------|--------------------|-------------|
| 24VDC | 100 μ F | 5VDC | 1000 μ F | \pm 5VDC | 470 μ F |
| 48VDC | 47 μ F | 9VDC | 330 μ F | \pm 9VDC | 220 μ F |
| -- | -- | 12VDC | 100 μ F | \pm 12VDC | 47 μ F |
| -- | -- | 15VDC | 100 μ F | \pm 15VDC | 47 μ F |
| -- | -- | 24VDC | 47 μ F | \pm 24VDC | 22 μ F |