

DNV-3F SERIES, 3WATT, 2:1 INPUT RANGE
FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Metal/Plastic case with low ripple and noise
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



| Model | Input voltage (Vdc) | Output voltage (Vdc) | Output current (mA) | Efficiency Typ. |
|------------|------------------------|-------------------------|------------------------|--------------------|
| DNV3-0511F | 5(4.5~9) | 5 | 600 | 74% |
| DNV3-0515F | | 9 | 333 | 80% |
| DNV3-0512F | | 12 | 250 | 78% |
| DNV3-0513F | | 15 | 200 | 78% |
| DNV3-0514F | | 24 | 125 | 78% |
| DNV3-0521F | | ±5 | 300 | 76% |
| DNV3-0525F | | ±9 | 167 | 80% |
| DNV3-0522F | | ±12 | 125 | 78% |
| DNV3-0523F | | ±15 | 100 | 78% |
| DNV3-0524F | | ±24 | 60 | 78% |
| DNV3-1211F | | 12(9~18) | 5 | 600 |
| DNV3-1215F | 9 | | 333 | 80% |
| DNV3-1212F | 12 | | 250 | 82% |
| DNV3-1213F | 15 | | 100 | 82% |
| DNV3-1214F | 24 | | 125 | 82% |
| DNV3-1221F | ±5 | | 300 | 80% |
| DNV3-1225F | ±9 | | 167 | 80% |
| DNV3-1222F | ±12 | | 125 | 82% |
| DNV3-1223F | ±15 | | 100 | 82% |
| DNV3-1224F | ±24 | | 60 | 82% |
| DNV3-2411F | 24(18~36) | | 5 | 600 |
| DNV3-2415F | | 9 | 333 | 80% |
| DNV3-2412F | | 12 | 250 | 86% |
| DNV3-2413F | | 15 | 200 | 86% |
| DNV3-2414F | | 24 | 125 | 86% |
| DNV3-2421F | | ±5 | 300 | 80% |
| DNV3-2425F | | ±9 | 167 | 80% |
| DNV3-2422F | | ±12 | 125 | 82% |
| DNV3-2423F | | ±15 | 100 | 82% |
| DNV3-2424F | | ±24 | 60 | 82% |

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| Model | Input voltage (Vdc) | Output voltage (Vdc) | Output current (mA) | Efficiency Typ. |
|------------|---------------------|----------------------|---------------------|-----------------|
| DNV3-4811F | 48(36~72) | 5 | 600 | 80% |
| DNV3-4815F | | 9 | 333 | 80% |
| DNV3-4812F | | 12 | 250 | 86% |
| DNV3-4813F | | 15 | 200 | 86% |
| DNV3-4814F | | 24 | 125 | 86% |
| DNV3-4821F | 48(36~72) | ±5 | 300 | 80% |
| DNV3-4825F | | ±9 | 167 | 80% |
| DNV3-4822F | | ±12 | 125 | 82% |
| DNV3-4823F | | ±15 | 100 | 82% |
| DNV3-4824F | | ±24 | 60 | 82% |

Notes: other input and output models may available on request.

Above models are default to plastic case, you may request for the models with metal case, plus "M" in the suffix.

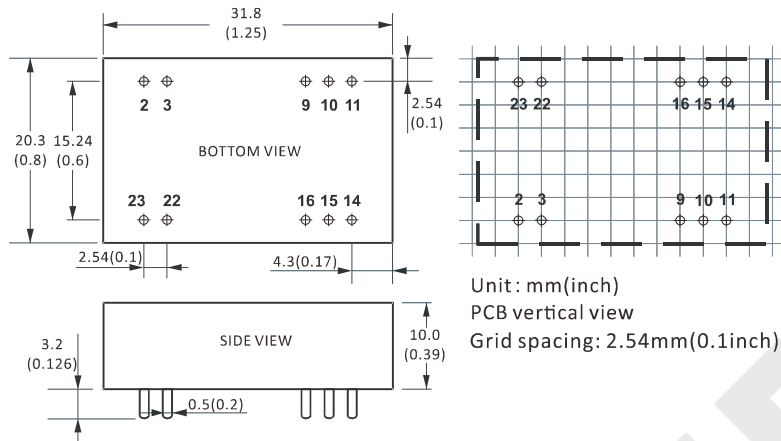
ELECTRICAL

| | | |
|---|----------------------------|---------------------------|
| 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 | ±2% max. |
| Ripple and noise | 20MHz BM, full load | 100mVp-p max. |
| Operating frequency | Typical value | 100KHz typ. |
| Isolation voltage (<1mA/min) | Input to output | 3000Vdc |
| 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% |
| MTBF | Bellcore TR-332, 25°C | 1000KHrs |
| Weight | --- | 18g |

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.

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MECHANICAL



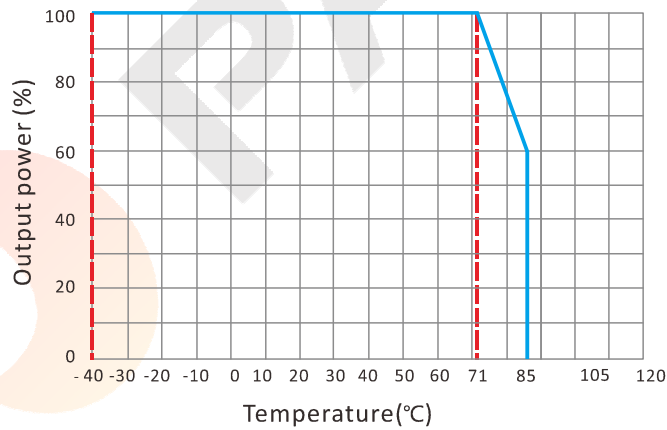
CONNECTION

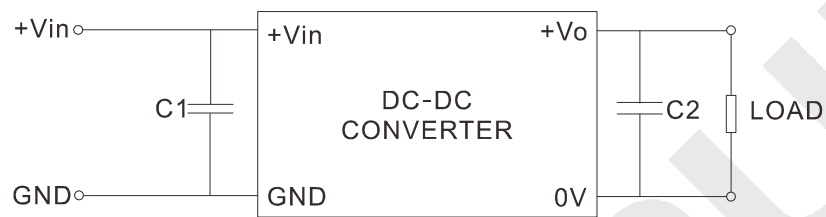
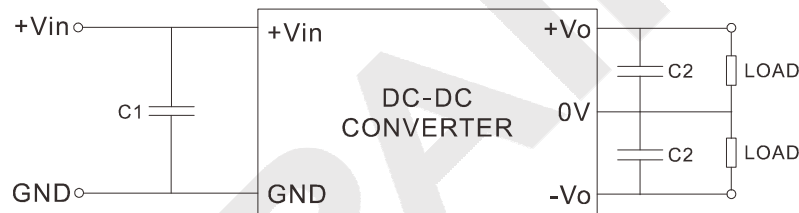
| PIN # | SINGLE | DUAL |
|-------|--------|--------|
| 2 | GND | GND |
| 3 | GND | GND |
| 9 | NC | 0V |
| 10 | No Pin | No Pin |
| 11 | NC | -Vo2 |
| 14 | +Vo | +Vo1 |
| 15 | No Pin | No Pin |
| 16 | 0V | 0V |
| 22 | +Vin | +Vin |
| 23 | +Vin | +Vin |

Note:

* Unit is mm(inch).

ELECTRICAL CURVE



DNV-3F SERIES, 3WATT, 2:1 INPUT RANGE
NOTES
RECOMMENDED TEST AND APPLICATION CIRCUIT
SINGLE OUTPUT

DUAL OUTPUT

CAPACITOR SELECTION

| INPUT VOLTAGE | C1 | SINGLE OUTPUT | C2 | DUAL OUTPUT | C2 |
|---------------|-------------|---------------|-------------|-------------|-------------|
| 5VDC | 100 μ F | 5VDC | 330 μ F | \pm 5VDC | 220 μ F |
| 12VDC | 47 μ F | 9VDC | 220 μ F | \pm 9VDC | 100 μ F |
| 24VDC | 47 μ F | 12VDC | 100 μ F | \pm 12VDC | 47 μ F |
| 48VDC | 10 μ F | 15VDC | 100 μ F | \pm 15VDC | 47 μ F |
| -- | -- | 24VDC | 47 μ F | \pm 24VDC | 22 μ F |