

- Features :
 - Economical open frame design
 - Wide input range
 - High efficiency up to 97%
 - Built-in remote ON / OFF control
 - Compact size 2.0"x1.024"x 0.421"(SIP package)
 - Cooling by free air convection
 - Protections: Short circuit / Overload / Over voltage
 - 100% burn-in test
 - Low cost / High reliability

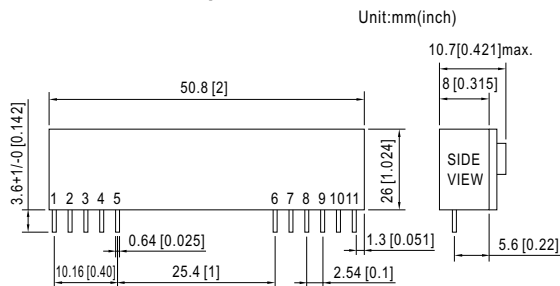
SPECIFICATION

| ORDER NO. | NID60S24-05 | NID60S24-12 | NID60S24-15 | NID60S48-24 | | |
|-----------------------------|------------------------------|--|------------------|------------------|------------|--------|
| OUTPUT | DC VOLTAGE | 5V | 12V | 15V | 24V | |
| | CURRENT RANGE | 0 ~ 4A | 0 ~ 4A | 0 ~ 4A | 0 ~ 2.5A | |
| | RATED POWER | 20W | 48W | 60W | 60W | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 120mVp-p | 150mVp-p | 200mVp-p | |
| | LINE REGULATION Note.3 | ±0.5% | | | | |
| | LOAD REGULATION Note.4 | ±0.5% | | | | |
| | VOLTAGE ACCURACY | ±2.0% | | | | |
| | SWITCHING FREQUENCY (Typ.) | 250KHz | | | | |
| EXTERNAL CAPACITANCE Note.5 | 100uF / 25V low ESR | | | | | |
| INPUT | VOLTAGE RANGE | 20 ~ 53VDC | 20 ~ 53VDC | 20 ~ 53VDC | 30 ~ 53VDC | |
| | NORMAL VOLTAGE | 24VDC (or 48VDC) | 24VDC (or 48VDC) | 24VDC (or 48VDC) | 48VDC | |
| | EFFICIENCY (Typ.) | 90% | 96% | 97% | 95% | |
| | DC CURRENT | Full load | 940mA | 2120mA | 2590mA | 1320mA |
| | | No load | 20mA | 30mA | 30mA | 50mA |
| | PROTECTION | Fuse recommended (5A) | | | | |
| EXTERNAL CAPACITANCE Note.5 | 22uF / 100V low ESR | | | | | |
| PROTECTION | OVERLOAD (Typ.) | 120 ~ 220% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | SHORT CIRCUIT | All output equipped with short circuit Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | OVER VOLTAGE | Protection type : Shut off o/p voltage, clamp by TVS diode | | | | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +65°C (Refer to output load derating curve) | | | | |
| | WORKING HUMIDITY | 20% ~ 85% RH non-condensing | | | | |
| | STORAGE TEMP., HUMIDITY | -25 ~ +105°C, 10 ~ 85% RH | | | | |
| | TEMP. COEFFICIENT | ±0.03% / °C (0 ~ 50°C) | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes | | | | |
| OTHERS | REMOTE CONTROL | Power on : 3.3VDC < R.C ~ com < 12VDC or open circuit ; power off : R.C ~ com < 0.4VDC or short circuit (PIN5,6 & PIN11) | | | | |
| | DIMENSION | 50.8*26*10.7mm or 2.0**1.024**0.421" inch (L*W*H) | | | | |
| | WEIGHT | 15g | | | | |

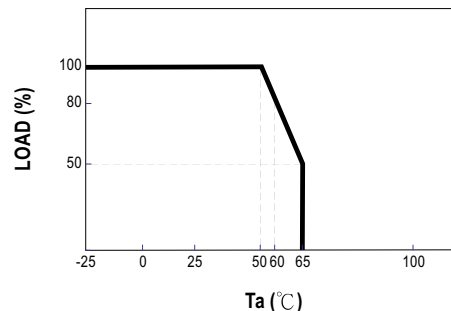
■ Mechanical Specification

■ Pin Configuration

■ Derating Curve



| Pin No. | Output |
|------------|--------|
| 1, 2, 3, 4 | +Vout |
| 5, 6 | Com |
| 7, 8 | +Vin |
| 9, 10 | N.C. |
| 11 | R.C. |



- NOTE**
1. All parameters are specified at normal input, rated load, 25°C 70% RH Ambient.
 2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
 3. Line regulation is measured from low line to high line at rated load.
 4. Load regulation is measured from 10% to 100% rated load.
 5. The input terminal recommend to parallel with 22uF/100V capacitor and output terminal recommend to parallel with 100uF/25V capacitor.