



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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■ Features :

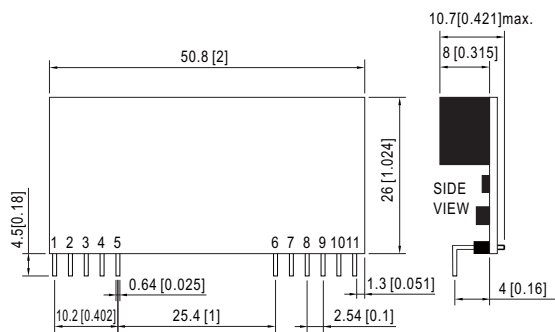
- Economical open frame design
- Wide input range
- High efficiency up to 96%
- Built-in remote ON / OFF control
- Compact size 2.0"x1.024"x 0.421"(SIP package)
- Cooling by free air convection
- Protections: Short circuit / Overload / Over voltage
- 100% burn-in test
- Low cost / High reliability
- 2 years warranty

**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				
INPUT	EXTERNAL CAPACITANCE LOAD (max.)	100uF / 25V low ESR	68uf/16V low ESR	47uf/50V low ESR		
	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%	95%	96%	95%	
	DC CURRENT	Full load	940mA	2120mA	2610mA	1320mA
		No load	20mA	30mA	30mA	50mA
PROTECTION	Fuse recommended (5A)					
PROTECTION	OVERLOAD (Typ.)	120 ~ 300% 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 "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

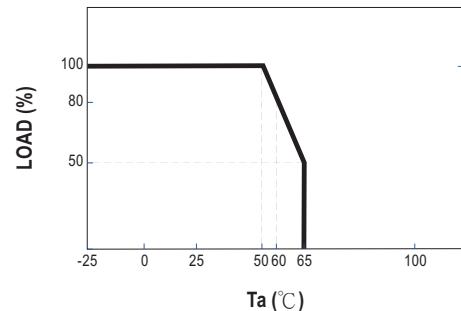
Unit:mm(inch)



■ Pin Configuration

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

■ Derating Curve



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.