

SPECIFICATION



Features:

- · Economical open frame design
- · Wide input range
- · High efficiency up to 97%
- Remote ON / OFF control
- Compact size 2.0"x1.082"x 0.472"(SIP package)
- Protections: Short circuit / Overload / Over voltage
- -30~+85°C wide working temperature
- · Cooling by free air convection
- Comply to EN55032 ClassA without additional components
- Trimming output (optional)
- · 3 years warranty

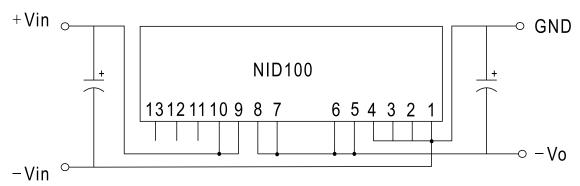
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ORDER NO.			NID100-5	NID100-12	NID100-15	NID100-24
	DC VOLTAGE		5V	12V	15V	24V
OUTPUT	RATED CURRENT		11A	7.5A	6.5A	4.2A
	RATED POWER		55W	90W	97.5W	100.8W
	RIPPLE & NOISE (max.) Note.2		100mVp-p	120mVp-p	150mVp-p	200mVp-p
			±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	Note.4	±0.5%	±0.5%	±0.5%	±0.5%
	VOLTAGE TOLERANCE		±2.0%	±2.0%	±2.0%	±2.0%
	SWITCHING FREQUENCY (Typ.)		200KHz			
	EXTERNAL CAPACITANCE LOAD (max.)		100uF/16V low ESR	68uf/25V low ESR	47uf/50V low ESR	47uf/50V low ESR
	VOLTAGE RANGE		10.5 ~ 53VDC	20 ~ 53VDC	20 ~ 53VDC	30 ~ 53VDC
	NORMAL VOLTAGE		24VDC (or 48VDC)	24VDC (or 48VDC)	24VDC (or 48VDC)	48VDC
	EFFICIENCY (T)	24Vin	93% (12/24VDC)	96%	97%	
INPUT	EFFICIENCY (Typ.)	48Vin	92%	95%	95%	96%
	DC CURRENT	Full load	5400mA/12VDC	4500mA/24VDC	4600mA/24VDC	2300mA/48VDC
	DC CURRENT	No load	20mA	30mA	30mA	50mA
	PROTECTION		Fuse recommended (8A)			
	OVERLOAD (Typ.)		120 ~ 250% rated output power			
			Protection type: Hiccup mode	e, recovers automatically after	fault condition is removed	
	OVER VOLTAGE		6.4 ~ 7.5V	15.6~ 18V	17.5~ 21V	28~ 33V
PROTECTION			Protection type : Shut off o/p voltage, clamp by TVS diode			
	SHORT CIRCUIT		All output equipped with short circuit			
			Protection type: Hiccup mode, recovers automatically after fault condition is removed			
FUNCTION	REMOTE CONTROL		Power on: 1.2VDC < R.C ~ com < 12VDC or open circuit; power off: R.C ~ com < 0.4VDC or short circuit (PIN5,6 & PIN11)			
	SAFETY STANDARDS		EAC TP TC 004 approved			
	WORKING TEMP.		-30 ~ +85°C (Refer to "Derating Curve")			
ENVIRONMENT	WORKING HUMIDITY		20% ~ 85% RH non-condensing			
LivinoniiiLivi	STORAGE TEMP.		-30 ~ +105℃			
	TEMP. COEFFICIENT		±0.03% / ℃ (0 ~ 50℃)			
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARD		EN62368-1(LVD)	T		
	EMC EMISSION		Parameter	Standard		vel / Note
			Conducted	EN55032	Class A without external components, Class B with external components	
			Radiated	EN55032	Class A without external components, Class B with external components	
	EMC IMMUNITY		Parameter	Standard	Test Level / Note	
			Radiated	EN61000-4-3	Level 2, 3V/m ; criteria A	
			EFT / Burst	EN61000-4-4	Level 2, 1KV ; criteria A	
			Surge	EN61000-4-5	Level 2, 1KV/Line-Line,criteria A	
			Conducted	EN61000-4-6	Level 2, 3V ; criteria A	
OTHERS	DIMENSION		50.8*27.5*12mm or 2,0"*1,082"*0,472" inch (L*W*H)			
	WEIGHT		35g;280psc/10.8Kg/0.97CUFT			
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.					

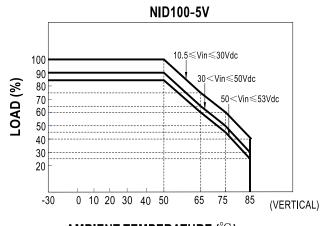


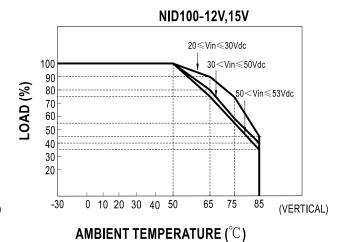
■ Connection diagram to obtain negative output voltage

Note:input voltage must be < 30VDC.

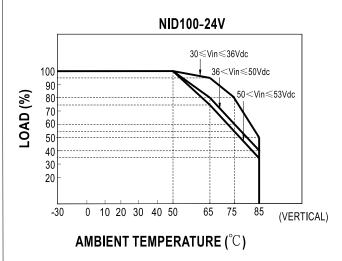


■ Derating Curve





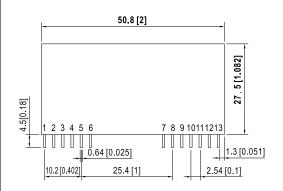
AMBIENT TEMPERATURE (°C)

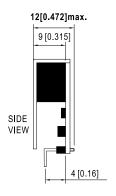


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■ Mechanical Specification





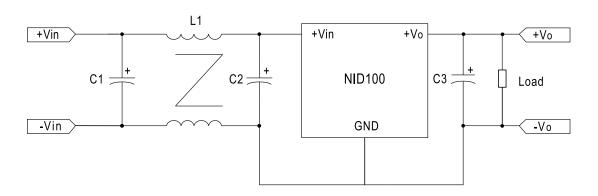
Unit:mm(inch)

■ Pin Configuration

Pin No.	Pin_Out	
1,2,3,4	+Vout	
5,6,7,8	Com	
9,10	+Vin	
11	N.C.	
12	Trim(optional)	
13	R.C.	

■ EMC Suggestion Circuit

*Comply to EN55032 Class A without additional components, required external components to meet Class B emisssion are as below:



C1/C2	L1	C3	
120 µ F/63V	15 µ H(NiZn)	22 µ F/35V	

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