

■ 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

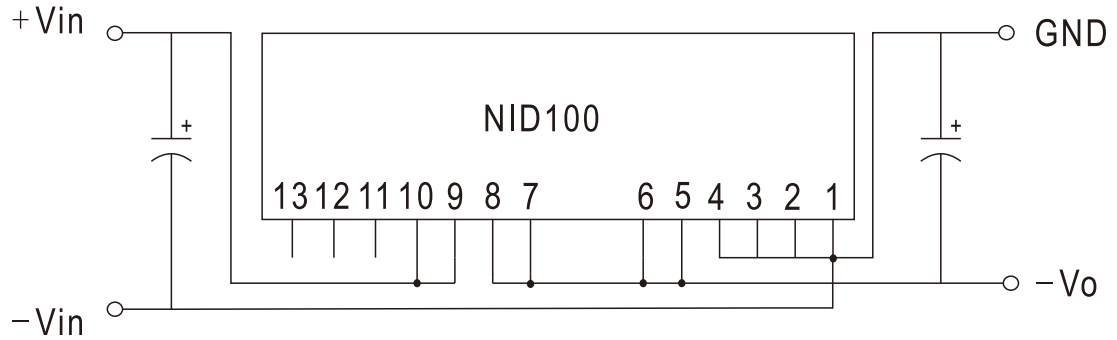


SPECIFICATION

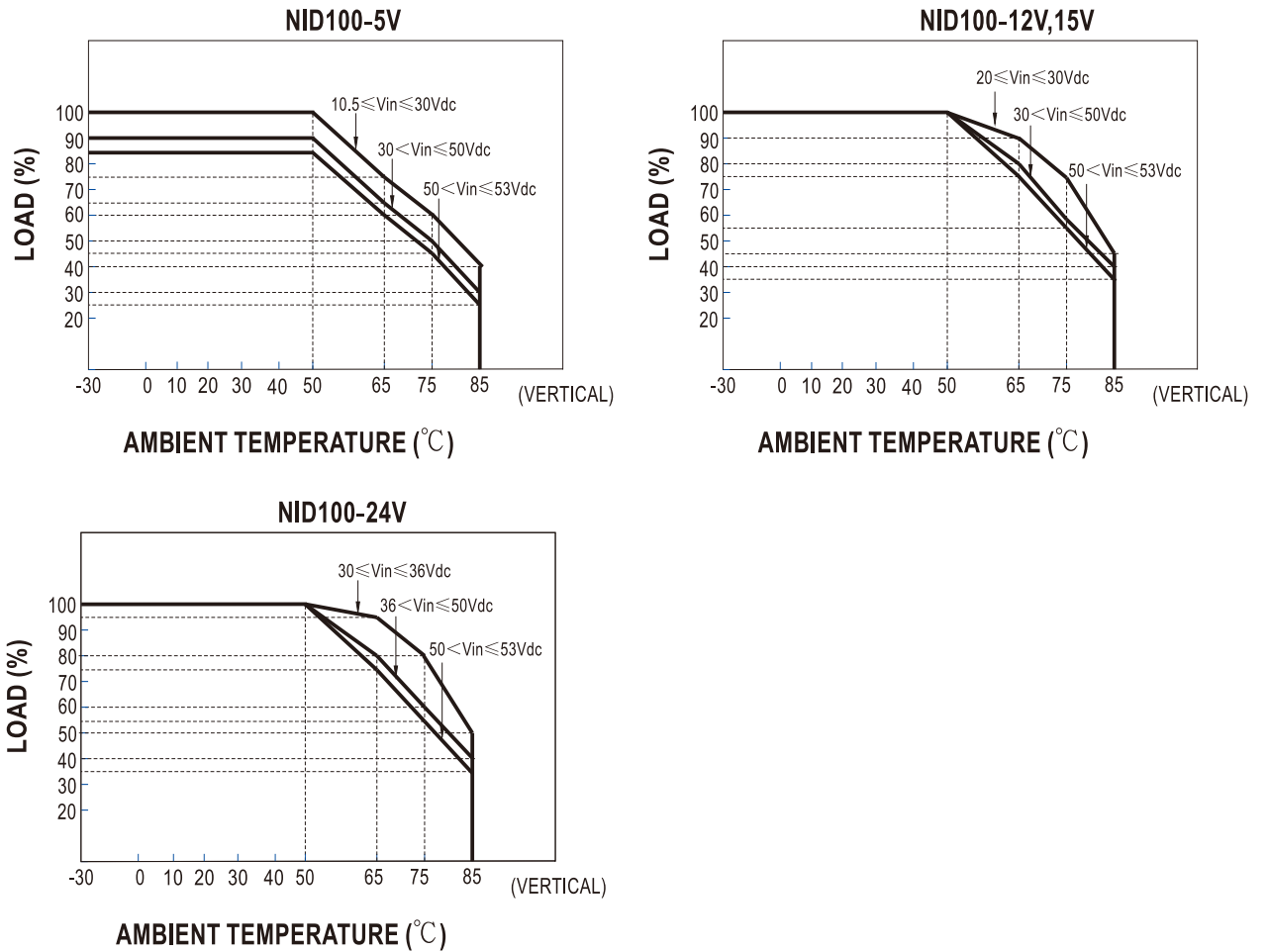
ORDER NO.		NID100-5	NID100-12	NID100-15	NID100-24	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	
	RATED CURRENT	11A	7.5A	6.5A	4.2A	
	RATED POWER	55W	90W	97.5W	100.8W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	200mVp-p	
	LINE REGULATION Note.3	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.4	±0.5%	±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					
INPUT	VOLTAGE RANGE	10.5 ~ 53VDC	20 ~ 53VDC	20 ~ 53VDC	30 ~ 53VDC	
	NORMAL VOLTAGE	24VDC (or 48VDC)	24VDC (or 48VDC)	24VDC (or 48VDC)	48VDC	
	EFFICIENCY (Typ.)	24Vin	93% (12/24VDC)	96%	97%	-----
		48Vin	92%	95%	95%	96%
	DC CURRENT	Full load	5400mA/12VDC	4500mA/24VDC	4600mA/24VDC	2300mA/48VDC
No load		20mA	30mA	30mA	50mA	
PROTECTION	Fuse recommended (8A)					
PROTECTION	OVERLOAD (Typ.)	120 ~ 300% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	6.4 ~ 7.5V	15.6~ 18V	17.5~ 21V	28~ 33V	
	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 (PIN5,6,7,8 & PIN13)				
ENVIRONMENT	SAFETY STANDARDS	EAC TP TC 004 approved				
	WORKING TEMP.	-30 ~ +85°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20% ~ 85% RH non-condensing				
	STORAGE TEMP.	-30 ~ +105°C				
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)				
VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min, each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARD	EN62368-1(LVD)				
	EMC EMISSION	Parameter	Standard	Test Level / Note		
		Conducted	EN55032	Class A without external components, Class B with external components		
	EMC IMMUNITY	Radiated	EN55032	Class A without external components, Class B with external components		
		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	<p>1.All parameters are specified at normal input, rated load, 25°C 70% RH Ambient.</p> <p>2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.</p> <p>3.Line regulation is measured from low line to high line at rated load.</p> <p>4.Load regulation is measured from 10% to 100% rated load.</p>					

■ **Connection diagram to obtain negative output voltage**

Note: input voltage must be < 30VDC.

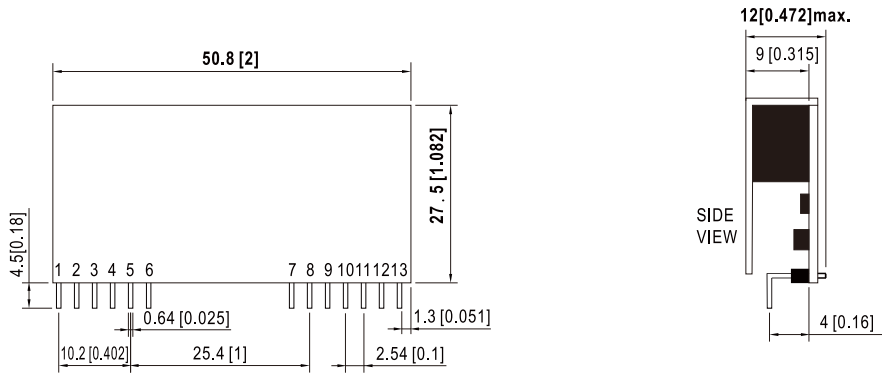


■ **Derating Curve**



Mechanical Specification

Unit:mm(inch)

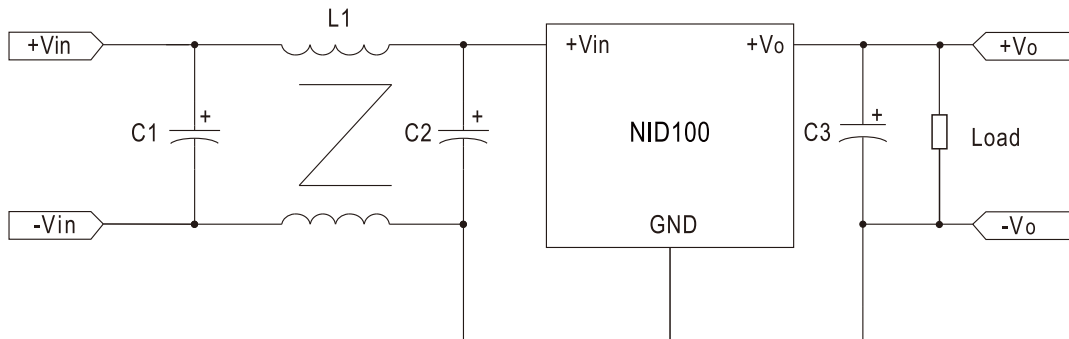


Pin Configuration

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 componenets ,required external components to meet Class B emission are as below:



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

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