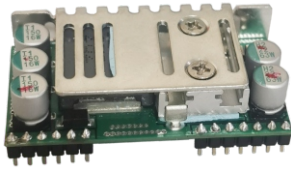
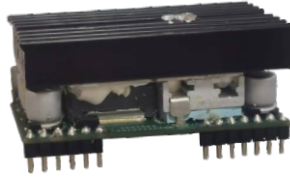


NID100-4.2



NID100-4.2H



■ Features :

- Economical open frame design
- Wide input range
- 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 BS EN/EN55032 ClassA without additional components
- Trimming output (optional)
- 3 years warranty

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

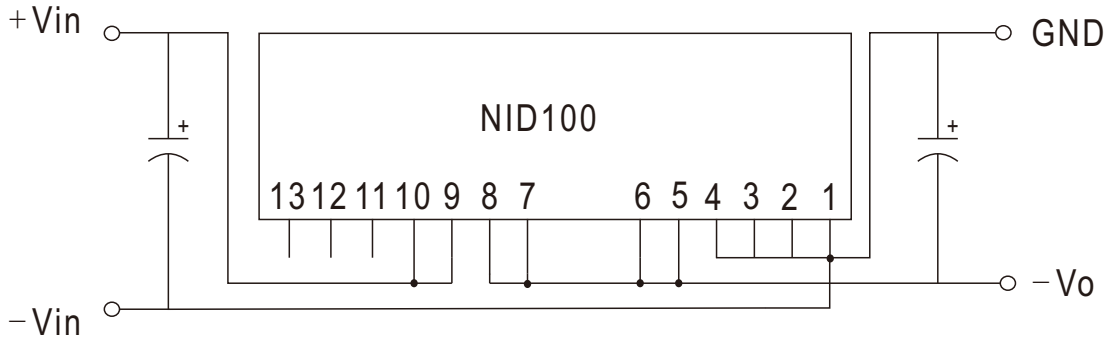


**SPECIFICATION**

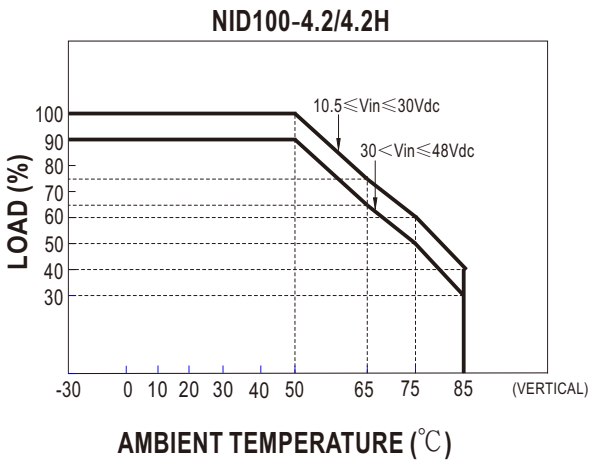
ORDER NO.		NID100-4.2	NID100-4.2H ( with extra heatsink )	
OUTPUT	DC VOLTAGE	4.2V		
	RATED CURRENT	11A	15A	
	RATED POWER	46.2W	63W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p		
	LINE REGULATION Note.3	±0.5%		
	LOAD REGULATION Note.4	±0.5%		
	VOLTAGE TOLERANCE	±2.0%		
	SWITCHING FREQUENCY (Typ.)	200KHz		
EXTERNAL CAPACITANCE LOAD (max.)	100uF/16V low ESR			
INPUT	VOLTAGE RANGE	10.5 ~ 48VDC	10.5 ~ 48VDC	
	NORMAL VOLTAGE	24VDC (or 48VDC)	24VDC (or 48VDC)	
	EFFICIENCY (Typ.)	24Vin	91%	91%
		48Vin	90%	90%
	DC CURRENT	Full load	5400mA/48VDC	2500mA/48VDC
No load		20mA	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 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)		
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	BS EN/EN62368-1(LVD)		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	BS EN/EN55032	Class A without external components, Class B with external components
	Radiated	BS EN/EN55032	Class A without external components, Class B with external components	
	EMC IMMUNITY	Parameter	Standard	Test Level / Note
		Radiated	BS EN/EN61000-4-3	Level 2, 3V/m ; criteria A
		EFT / Burst	BS EN/EN61000-4-4	Level 2, 1KV ; criteria A
		Surge	BS EN/EN61000-4-5	Level 2, 1KV/Line-Line, criteria A
Conducted	BS EN/EN61000-4-6	Level 2, 3V ; criteria A		
MTBF	17290.5K hrs min. Telcordia SR-332 (Bellcore) ; 1000.6K hrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	50.8*27.5*13mm or 2.0**1.082**0.512" inch (L*W*H)	50.8*27.5*19mm or 2.0**1.082**0.748" inch (L*W*H)	
	WEIGHT	35g;280psc/10.8Kg/0.94CUFT	40g;280psc/11Kg/0.94CUFT	
NOTE	<p>1.All parameters are specified at normal input, rated load, 25°C 70% RH Ambient.                  2.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 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.                  ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>			

■ Connection diagram to obtain negative output voltage

NOTE: Input voltage difference.



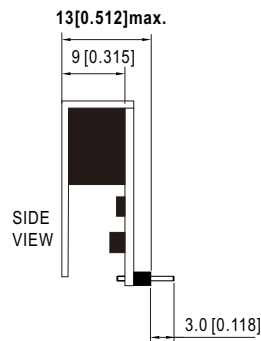
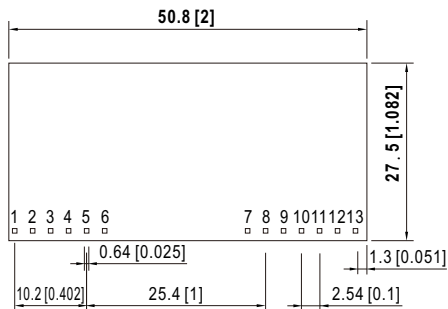
■ Derating Curve



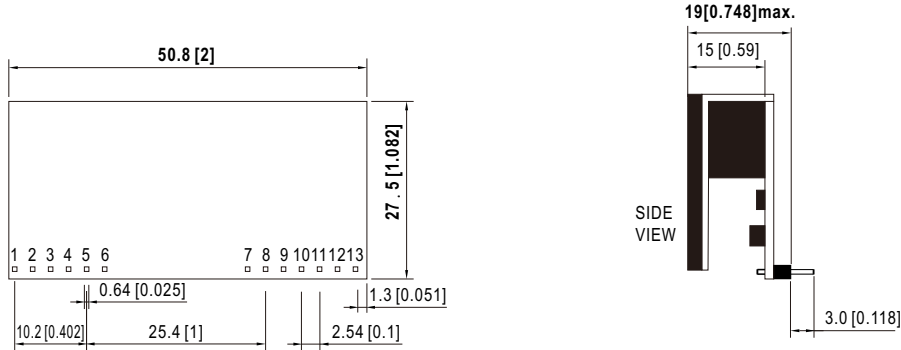
■ Mechanical Specification

Unit:mm(inch)

NID100-4.2



NID100-4.2H

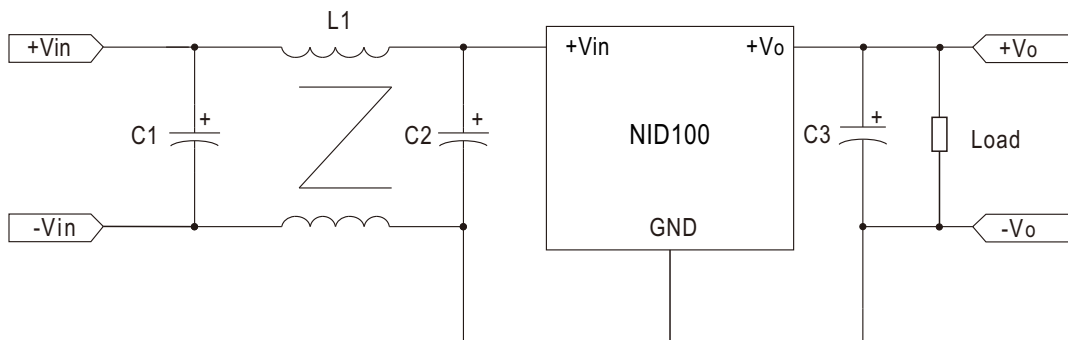


■ Pin Configuration

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 emission are as below:



C1/C2	L1	C3
120uF/63V	15uF(NiZn)	22uF/35V