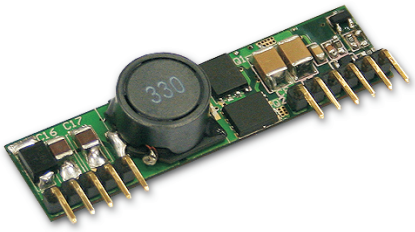
MEAN WELL

12.5~30W DC-DC Non-isolated Single Output Converter **NID30 series**



■ Features :

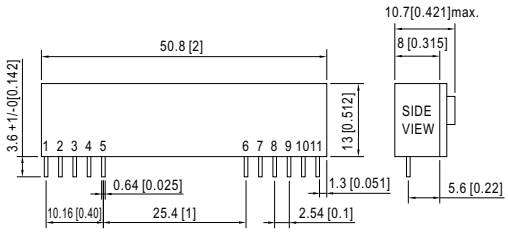
- Economical open frame design
- Wide input range
- High efficiency up to 96%
- Built-in remote ON / OFF control
- Compact size 2.0"x0.512"x 0.421"(SIP package)
- Cooling by free air convection
- Protections: Short circuit / Overload / Over voltage
- 100% burn-in test
- Low cost / High reliability
- 2 years warranty

SPECIFICATION

ORDER NO.			NID30S24-05	NID30S24-12	NID30S24-15	NID30S48-24
OUTPUT	DC VOLTAGE		5V	12V	15V	24V
	CURRENT RANGE		0 ~ 2.5A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.25A
	RATED POWER		12.5W	30W	30W	30W
	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 LOAD (max.)		100uF / 25V low ESR	68uf/16V low ESR	47uf/50V 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.)		91%	95%	96%	93%
	DC CURRENT	Full load	590mA	1310mA	1320mA	700mA
		No load	20mA	30mA	30mA	50mA
	PROTECTION		Fuse recommended (3A)			
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℃ (Refer to output load derating curve)			
	WORKING HUMIDITY		20% ~ 85% RH non-condensing			
	STORAGE TEMP., HUMIDITY		-25 ~ +105℃, 10 ~ 85% RH			
	TEMP. COEFFICIENT		±0.03% / ℃ (0 ~ 50℃)			
	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*13*10.7mm or 2.0"*0.512"*0.421" inch (L*W*H)			
	WEIGHT		8g			

■ Mechanical Specification

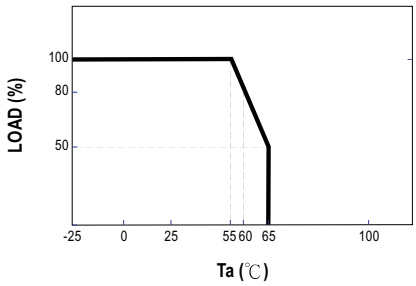
Unit:mm(inch)



■ 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℃ 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.

File Name:NID30-SPEC 2009-09-04

PEWATRON
a member of the Angst + Pfister Group

We are here for you. Addresses and Contacts

Sales Switzerland

Postcode 3000 – 9999
Liechtenstein

Matthias Rüegg
Ruhbergstrasse 32
CH-9230 Flawil

Phone + 41 44 877 35 18
Mobile + 41 76 491 66 66
Fax + 41 44 877 35 19

matthias.rueegg@pewatron.com

Postcode 1000 – 2999

Raffael Favaretto
Route d'Oron 124
CH-1673 Promasens

Phone + 41 44 877 35 22
Mobile + 41 76 444 63 14
Fax + 41 44 877 35 23

raffael.favaretto@pewatron.com

Sales Germany

Postcode 60000 – 79999

Dieter Hirthe
Mühlweg 23
D-71554 Weissach i.T.

Phone + 49 719 149 60 58
Mobile + 49 163 762 74 30
Fax + 49 719 193 31 88

dieter.hirthe@pewatron.com

Postcode 10000 – 59999
Postcode 80000 – 99999

Kurt Stritzelberger
Neumarkter Str. 86a
D-81673 Munich

Phone + 49 89 260 38 47
Mobile + 49 171 803 41 35
Fax + 49 89 43 10 91 91

kurt.stritzelberger@pewatron.com

Key Accounts
Aerospace and Defence

Claus Wübbena
Vogelkamp 26
D-26655 Westerstede

Phone + 49 4488 5204 614
Mobile + 49 173 9700 691
Fax + 49 4488 5204 616

claus.wuebbena@pewatron.com

Sales Austria

Kurt Stritzelberger
Neumarkter Str. 86a
D-81673 Munich

Phone + 49 89 260 38 47
Mobile + 49 17 18 03 41 35
Fax + 49 89 43 10 91 91

kurt.stritzelberger@pewatron.com

Sales Other Countries / Product Management

Sensors

Physical Sensors
Data Acquisition

Peter Felder
Phone + 41 44 877 35 05
peter.felder@pewatron.com

Geometrical Sensors

Eric Letsch
Phone + 41 44 877 35 14
eric.letsch@pewatron.com

Power Supplies

DC-DC Converters
Switching Power Supplies
DC-AC Inverters

Sebastiano Leggio
Phone + 41 44 877 35 06
sebastiano.leggio@pewatron.com

E-Components

Current Sensors
Man Machine Interface
Measurement Probes

Sebastiano Leggio
Phone + 41 44 877 35 06
sebastiano.leggio@pewatron.com

PEWATRON AG
Thurgauerstrasse 66
CH-8052 Zurich

Phone + 41 44 877 35 00
Fax + 41 44 877 35 25

www.pewatron.com
info@pewatron.com