Преобразователи для монтажа на печатную плату серии NSD

Технические характеристики

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DC/DC Converter 5~10W 1~2 Output On Board Type

NSD05
(1.6"x1")

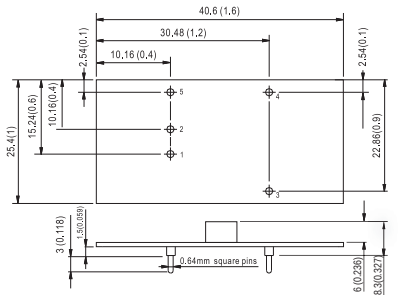
NSD10
(2"x1")

Features

- 4:1 wide input range
- 1000VDC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in remote ON/OFF control
- Cooling by free air convection
- 2 years warranty

NSD05 Series

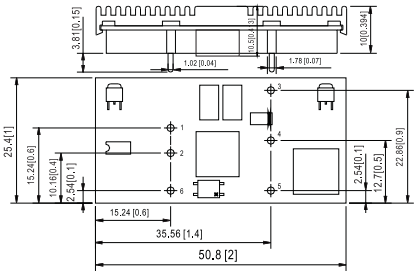
Unit: mm(inch)



Pin No.	Output
1	+Input
2	-Input(GND)
3	+Vout
4	-Vout
5	Control

NSD10 Series

Unit: mm(inch)



Pin No.	Output	
	Single	Dual
1	+Input	+Input
2	-Input (GND)	-Input (GND)
3	+Out	+Out
4	NC	Common
5	-Out	-Out
6	Control	Control

(NSD10) (NSD05)

Model No.	NSD05	NSD10
Vo accuracy (max.)	±2%	
Line regulation (max.)	±1% @10%~100% load	
Load regulation (max.)	±1~±2% @10%~100% load	±1~±3% @10%~100% load
Overload protection	Over 105% power limiting, auto-recovery	
Short circuit protection	Continuous, auto-recovery	
Over voltage protection	Clamp@110%~140%	Clamp@115%~150%
Shutdown idle current	5mA	20mA
I/O isolation voltage (min.)	1000VDC	
I/O isolation resistance (min.)	100MΩ@500VDC	
Working temperature	-25~+70°C (refer to output derating curve)	
Safety standards	IEC60950-1 CB approved by TUV	UL60950-1 approved
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8	
Dimension (LxWxH)	1.6"x 1"x 0.327" (40.6x 25.4x 8.3mm)	2"x 1"x 0.394" (50.8x 25.4x 10mm)

5W / Regulated / Single Vout NSD05-S

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
NSD05-12S3	9.2~36	3.3	1200	75	72
NSD05-12S5	9.2~36	5	1000	75	76
NSD05-12S12	9.2~36	12	420	75	82
NSD05-12S15	9.2~36	15	330	75	83
NSD05-48S3	18~72	3.3	1200	75	75
NSD05-48S5	18~72	5	1000	75	78
NSD05-48S12	18~72	12	420	75	83
NSD05-48S15	18~72	15	330	75	85

10W / Regulated / Single Vout NSD10-S

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
NSD10-12S3	9.8~36	3.3	2500	75	72
NSD10-12S5	9.8~36	5	2000	75	75
NSD10-12S9	9.8~36	9	1100	75	78
NSD10-12S12	9.8~36	12	830	75	79
NSD10-12S15	9.8~36	15	670	75	80
NSD10-48S3	22~72	3.3	2500	75	74
NSD10-48S5	22~72	5	2000	75	77
NSD10-48S9	22~72	9	1100	75	78
NSD10-48S12	22~72	12	830	75	79
NSD10-48S15	22~72	15	670	75	80

10W / Regulated / Dual Vout NSD10-D

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
NSD10-12D5	9.8~36	±5	±50~1000	75	76
NSD10-12D12	9.8~36	±12	±20~420	75	77
NSD10-12D15	9.8~36	±15	±16~330	75	77
NSD10-48D5	22~72	±5	±50~1000	75	78
NSD10-48D12	22~72	±12	±20~420	75	77
NSD10-48D15	22~72	±15	±16~330	75	77

DC/DC Converter 15~60W 1~2 Output On Board Type

NSD15
(2"x1.5")

NID30
(2"x0.51")

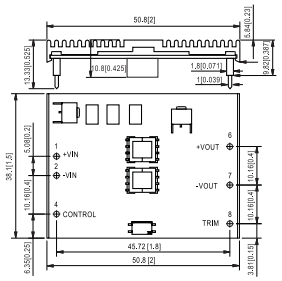
NID60
(2"x1.02")

Features

- 4:1 wide input range (NSD15),
  3:1 wide input range (NID30/60 5~15V)
- 1500VDC I/O isolation (NSD15)
- Protections: Short circuit / Overload / Over voltage
- Dual in line package (NSD15), single in line package (NID30/60)
- Built-in remote ON/OFF control
- Output voltage trimming function (NSD15)
- Cooling by free air convection
- Non-isolated (NID30/60)
- High efficiency up to 96% (NID30/60)
- Economical open frame design (NID30/60)
- 2 years warranty

NSD15 Series

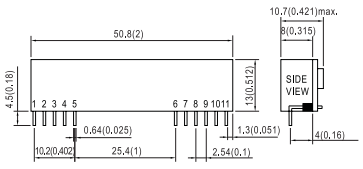
Unit: mm(inch)



Pin No.	Output	
	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	No Pin	No Pin
4	Control	Control
5	No Pin	+Vout
6	+Vout	Common
7	-Vout	-Vout
8	Trim	Trim

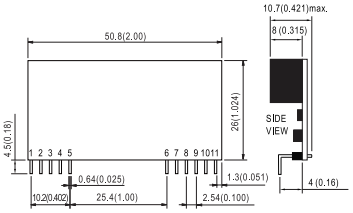
NID30 / NID60 Series

Unit: mm(inch)



NID30

Unit: mm(inch)



NID60

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

General Specification (Please refer to www.meanwell.com for detail spec.)

(NSD15 only)

Model No.	NSD15	NID30	NID60
Vo accuracy (Typ.)	±2%		
Line regulation (max.)	±1% @10%~100% load	±0.5%	
Load regulation (max.)	±1%~±3% @10%~100% load	±0.5% @ 10%~100% load	
Overload protection	Over 105% power limiting, auto-recovery	120%~300%, auto-recovery	
Short circuit protection	Continuous, hiccup mode, auto-recovery		
Over voltage protection	Clamp@115%~150%	Clamp by TVS Diode	
Shutdown idle current	20mA	NA	
I/O isolation voltage (min.)	1500VDC	NA	
I/O isolation resistance (min.)	100MΩ@500VDC	NA	
Working temperature	-25~+70°C	-25~+65°C (refer to derating curve)	
Safety standards	UL60950-1 approved	NA	
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8	NA	
Dimension (LxWxH)	2"x 1.5"x 0.387" (50.8x 38.1x 9.82mm)	2"x 0.512"x 0.421" (50.8x 13x 10.7mm)	2"x 1.024"x 0.421" (50.8x 26x 10.7mm)

15W / Isolated / Single Vout NSD15-S

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
NSD15-12S3	9.4~36	3.3	3.75	100	73
NSD15-12S5	9.4~36	5	3	75	77
NSD15-12S12	9.4~36	12	1.25	75	81
NSD15-12S15	9.4~36	15	1	75	81
NSD15-48S3	18~72	3.3	3.75	100	77
NSD15-48S5	18~72	5	3	75	81
NSD15-48S12	18~72	12	1.25	75	84
NSD15-48S15	18~72	15	1	75	85

15W / Isolated / Dual Vout NSD15-D

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
NSD15-12D5	9.4~36	±5	±70~1500	100	76
NSD15-12D12	9.4~36	±12	±30~620	100	80
NSD15-12D15	9.4~36	±15	±20~500	100	80
NSD15-48D5	18~72	±5	±70~1500	100	80
NSD15-48D12	18~72	±12	±30~620	100	84
NSD15-48D15	18~72	±15	±20~500	100	84

30W / Non-isolated / Single Vout NID30

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
NID30S24-05	20~53	5	2.5	100	91
NID30S24-12	20~53	12	2.5	120	95
NID30S24-15	20~53	15	2	150	96
NID30S48-24	30~53	24	1.25	200	93

60W / Non-isolated / Single Vout NID60

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
NID60S24-05	20~53	5	4	100	90
NID60S24-12	20~53	12	4	120	95
NID60S24-15	20~53	15	4	150	96
NID60S48-24	30~53	24	2.5	200	95

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