

Single & double outputs
Input to output isolated

- 1:2 and 1:4 wide input voltage ranges
- Very high efficiency up to 84%
- Very low output voltage noise
- Continuous no-load and short-circuit proof
- Extended ambient temperature range -40...+85°C
- DIL 24 case, h = 0.41"
- No derating
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty

NEW!



Electromagnetic emission EN 55022 < B¹

Conducted and radiated emissions

	5 NPE	24 NPE	48 NPE	
No load input current	80	15	10	mA typ.
Switching frequency	100 kHz min.			
Output voltage accuracy	± 1%; 3.3 VDC outputs ± 1.5% max.			
Static line regulation	± 0.2% max.			
Static load regulation FL to 10%	0...0.5% max.			
Output voltage noise (20 MHz BW)	30 mVpp typ.			
Output current limitation response	130% typ.			
Efficiency	77% to 84% typ.			
I/O Electric strength test voltage	1500 VDC			
Coupling capacitance	1000 pF			
Ambient temperature range	-U: -40...+71°C; -S: -40...+85°C			
Case temperature range	-U: -40...+95°C; -S: -40...+105°C			
Storage temperature range	-U: -40...+105°C; -S: -40...+105°C			
Case material	Non-conductive plastic, UL94 V-0 rated			
MTBF, GB @ 40°C case	4.300.000 hours			
(MIL-HDBK-217F, Notice 2)				

¹ 5 NPE4-types require an external input filter of:

- One MURATA Ceramic capacitor GRM42- 2X5R 226K16R, 22µF/16V
- One FERROXCUBE EMI suppression bead BDS3/3/89-3S1 installed in the +Vi line between the capacitor and the input pins.

Standard Types	Input voltage VDC	Output	
		VDC	mA
Single output	4.5...9 (nominal 5)	3.3	900
5 NPE4-03-U		5	700
5 NPE4-05-U		12	340
5 NPE4-12-U		15	270
5 NPE4-15-U			
Double output ²	8.4...36 (nominal 24)	± 3.3	± 450
5 NPE4-0303-U		± 5	± 350
5 NPE4-0505-U		± 12	± 170
5 NPE4-1212-U		± 15	± 135
5 NPE4-1515-U			
Single output	16.8...75 (nominal 48)	3.3	900
xx NPE4-03-U ^{3,4}		5	700
xx NPE4-05-U ^{3,4}		12	340
xx NPE4-12-U ^{3,4}		15	270
xx NPE4-15-U ^{3,4}			
Double output ²		± 3.3	± 450
xx NPE4-0303-U ^{3,4}		± 5	± 350
xx NPE4-0505-U ^{3,4}		± 12	± 170
xx NPE4-1212-U ^{3,4}		± 15	± 135
xx NPE4-1515-U ^{3,4}			

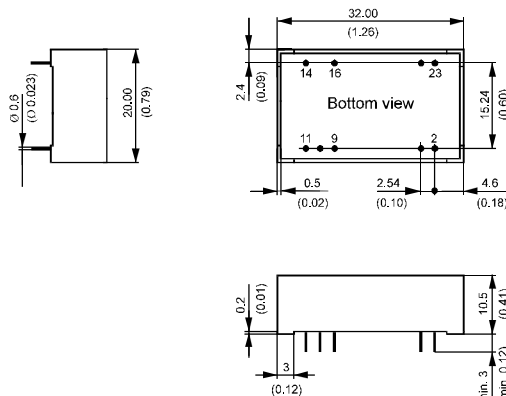
² Double outputs should have symmetrical load conditions to comply with the specifications listed on the left side.

³ To complete type number replace "xx" by the required nominal input voltage, e.g. 24 NPE4-03-U.

⁴ Extended temperature range -S is available.
Replace -U by -S on type number, e.g. 48 NPE4-1515-S.

Modifications and customs are available upon request.

Dimensions in mm (inches)



Pin Configuration		
Pin	Single output	Double output
2	-Gi	-Gi
3	-Gi	-Gi
9	No Pin	Go
10	NC	No pin
11	No Pin	-Vo
14	+Vo	+Vo
16	-Go	Go
22	+Vi	+Vi
23	+Vi	+Vi

Specifications subject to change without notice