

Nominal input voltage 5, 12, 24V Output voltage accuracy +10%, -7.5% (10% to 100% load)
 Input voltage range ±10% Output ripple and noise 150mV pk to pk
 Load voltage regulation ±10% (min. load 10%)

SIL Package				DIL Package			
Vin	Vo	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code		
5	±5	NMH0505SC	102-1484	NMH0505DC	102-1483		
5	±9	NMH0509SC	102-1487	NMH0509DC	102-1486		
5	±12	NMH0512SC	102-1489	NMH0512DC	102-1488		
5	±15	NMH0515SC	102-1491	NMH0515DC	102-1490		
12	±5	NMH1205SC	102-1493	NMH1205DC	102-1492		
12	±9	NMH1209SC	102-1495	NMH1209DC	102-1494		
12	±12	NMH1212SC	102-1498	NMH1212DC	102-1496		
12	±15	NMH1215SC	102-1500	NMH1215DC	102-1499		
24	±12	NMH2412SC	102-1507	NMH2405DC	102-1501		
24	±5	NMH2405SC	102-1502				
24	±9	NMH2409SC	102-1505	NMH2412DC	102-1506		
24	±12	NMH2412SC	102-1507	NMH2415DC	102-1508		
24	±15	NMH2415SC	102-1509				

Order Code	Price Each				
	1+	10+	25+	50+	+
NMH05 Series All order codes	802.00	761.00	724.00	654.00	--
NMH12 Series All order codes	802.00	761.00	724.00	654.00	--
NMH24 Series All order codes	923.00	877.00	833.00	752.00	--

2W Isolated DC/DC Converters

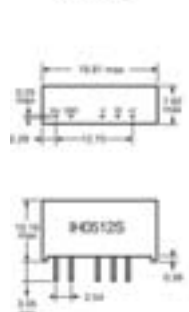
Dual Output - IH Series



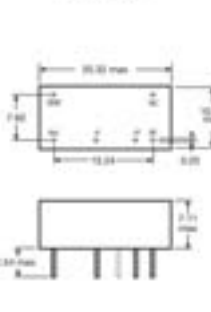
A new low cost range of 2W isolated dc/dc converters. The IH series has dual outputs ranging from ±5Vdc to ±15Vdc with inputs of 5, 12 or 24 Vdc. The units are available in both SIP and DIP package styles and feature short circuit protection.

- Low cost
- Industry standard pin-out
- 1 kVdc isolation
- -40°C to +85°C @ full load
- UL94V-0 material

SIP Package



DIP Package



Input Range Nominal ±10%
 Line Regulation 1.2%/1% ΔVin
 Load Regulation ±8% 20-100% load
 Ripple & Noise 75 mV pk-pk max
 Short Circuit Protection 1 s max
 Operating Temperature -40°C to +85°C
 Storage Temperature -40°C to +125°C
 Isolation Voltage 1000 Vdc min
 Efficiency Up to 75%

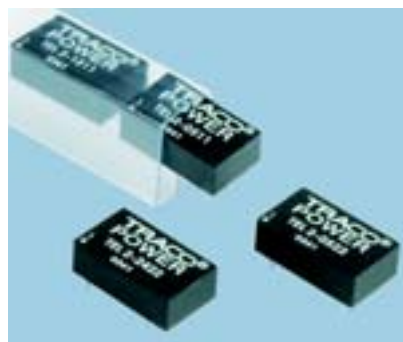
Input Voltage	Output Voltage	Output Current	SIP Package		DIP Package	
			Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
5 Vdc	±5 Vdc	±200 mA	IH0505S	872-7864	IH0505D	872-7856
5 Vdc	±9 Vdc	±111 mA	IH0509S	872-7880	IH0509D	872-7872
5 Vdc	±12 Vdc	±84 mA	IH0512S	872-7902	IH0512D	872-7899
5 Vdc	±15 Vdc	±66 mA	IH0515S	872-7929	IH0515D	872-7910
12 Vdc	±5 Vdc	±200 mA	IH1205S	872-7945	IH1205D	872-7937
12 Vdc	±9 Vdc	±111 mA	IH1209S	872-7961	IH1209D	872-7953
12 Vdc	±12 Vdc	±84 mA	IH1212S	872-7988	IH1212D	872-7970
12 Vdc	±15 Vdc	±66 mA	IH1215S	872-8003	IH1215D	872-7996
24 Vdc	±5 Vdc	±200 mA	IH2405S	872-8020	IH2405D	872-8011
24 Vdc	±9 Vdc	±111 mA	IH2409S	872-8046	IH2409D	872-8038
24 Vdc	±12 Vdc	±84 mA	IH2412S	872-8062	IH2412D	872-8054
24 Vdc	±15 Vdc	±66 mA	IH2415S	872-8089	IH2415D	872-8070

Mfrs. List No.	Order Code	Price Each				
		1+	10+	25+	50+	+
IH05 Series	All Order Codes	626.00	590.00	577.00	558.00	--
IH12 Series	All Order Codes	626.00	590.00	577.00	558.00	--
IH24 Series	All Order Codes	721.00	677.00	662.00	641.00	--

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TEL-2 Series, 2 Watt



- DC/DC converter in SMD design
- Wide 2:1 input range
- Input filter meets EN55022, Class A
- High efficiency
- Indefinite short circuit protection
- Ultra compact 16-pin plastic package
- 3 year manufacturer's warranty

Input Variation ±0.5% Max. Ripple & Noise 50mV pk-pk typ.
 Load Variation ±0.75% Max. (Single output models) Operating Temp. -25°C to +75°C (no derating)
 ±2.0% max. (dual output models) Isolation Voltage 1500 V
 Efficiency 75% typ. Conducted EMI EN55022, Class A

Input Voltage	Output Voltage	Output Current	Mfrs. List No.	Order Code
4.5 - 9V	5V	400mA	TEL 2-0511	100-7023
4.5 - 9V	12V	167mA	TEL 2-0512	100-7025
4.59.0V -	±5V	±200mA	TEL 2-0521	100-7027
4.5 - 9V	±12V dc	±83mA	TEL 2-0522	100-7028
4.5 - 9V	±15V dc	±67mA	TEL 2-0523	100-7029
9 - 18V	5V	400mA	TEL 2-1211	100-7030
9 - 18V	12V	167mA	TEL 2-1212	100-7031
9.18V -	±5V	±200mA	TEL 2-1221	100-7032
9 - 18V	±12V dc	±83mA	TEL 2-1222	100-7033
9 - 18V	±15V dc	±67mA	TEL 2-1223	100-7034
18 - 36V	5V	400mA	TEL 2-2411	100-7035
18 - 36V	12V	167mA	TEL 2-2412	100-7037
1836V -	±5V	±200mA	TEL 2-2421	100-7039
18 - 36V	±12V dc	±83mA	TEL 2-2422	100-7041
18 - 36V	±15V dc	±67mA	TEL 2-2423	100-7042
36 - 72V	5V	400mA	TEL 2-4811	100-7043
36 - 72V	12V	167mA	TEL 2-4812	100-7044
3672V -	±5V	±200mA	TEL 2-4821	100-7045
36 - 72V	±12V dc	±83mA	TEL 2-4822	100-7046
36 - 72V	±15V dc	±67mA	TEL 2-4823	100-7047

Mfrs. List No.	Order Code	Price Each			
		1+	5+	10+	25+
TEL 2-0511	100-7023	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-0512	100-7025	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-0521	100-7027	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-0522	100-7028	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-0523	100-7029	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-1211	100-7030	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-1212	100-7031	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-1221	100-7032	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-1222	100-7033	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-1223	100-7034	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-2411	100-7035	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-2412	100-7037	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-2421	100-7039	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-2422	100-7041	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-2423	100-7042	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-4811	100-7043	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-4812	100-7044	1,232.00	1,171.00	1,111.00	1,046.00
TEL 2-4821	100-7045	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-4822	100-7046	1,272.00	1,207.00	1,146.00	1,081.00
TEL 2-4823	100-7047	1,272.00	1,207.00	1,146.00	1,081.00

2W - Single Output NDL Series

Wide Input



- 1KV dc input/output isolation
- Miniature SIP package
- Short circuit protection
- Continuous short circuit protection with current foldback
- 2:1 wide input range
- External control
- Low noise
- Power density 0.9W/cm³
- Packaged to UL94V-0
- RoHS Compliant

(Nom) Vin	Output	Mfrs. List No.	Order Code	Connections
24 18-36	5V dc 400mA	NDL2405SC	102-1408	Pin 1 GND Pin 5 NE
24 18-36	9V dc 222mA	NDL2409SC	102-1409	Pin 2 +Vin Pin 6 +V out
24 18-36	12V dc 167mA	NDL2412SC	102-1410	Pin 3 CTRL Pin 7 OV out
24 18-36	15V dc 134mA	NDL2415SC	102-1411	Pin 4 Not fitted Pin 8 Cs
48 36-72	5V dc 400mA	NDL4805SC	102-1413	
48 36-72	9V dc 222mA	NDL4809SC	102-1414	
48 36-72	12V dc 165mA	NDL4812SC	102-1415	NE = No external conn. allowed
48 36-72	15V dc 130mA	NDL4815SC	102-1416	Cs = Opt external capacitor

Power Supplies & DC to DC Convertors

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Compliant Non-compliant Limited stock - RoHS replacement available
RoHS