12 W 12 Watt Slimline Power AC/DC

ADAPTER HNP12-V2 Steckernetzteil-Serie



Besondere Merkmale

Features

Steckerschaltnetzteil Plug in switching adaptor Doppelte Isolation Double insulated Kompakter Aufbau Small low profile package Überlast- und kurzschlußfest Overload, short circuit protection Minimalster Leerlaufverlust Lowest standby power consumption EU CoC V5 tier 2 / EnergyStar DOE VI EU CoC V5 tier 2 / EnergyStar DOE VI

Anwendung

Application

Single board computers Einplatinencomputer **Drahtlose Kommunikation** Wireless communications Peripheriegeräte Peripherals Netztwerktechnik Networking Mobile Ausrüstungen Portable equipment Tablets / Smartphones Tablets / Smartphones Telekommunikation Telecom

Technische Daten

Specification

(bei 25°C Umgebungstemperatur)

at 25 °C ambient temperature

Input Specifications Eingangsdaten

90...264 VAC Eingangsspannung Input voltages Eingangsfrequenz 47...63 Hz Input frequency Eingangsstrom Input current 350mA(rms) @90VAC Netzausfallüberbrückung Hold-up time, nom.conditions 20ms @230VAC Einschaltstromstoß <30A/230VAC Inrush current Leerlaufverlust No load power consumption < 0.075 Watt

Ausgangsdaten

Output Specifications

Power Leistung 12 Watt DOE VI / CoC V5 tier 2 Wirkungsgrad Efficiency Ausregelzeit ±2% Recovery time ±2% max. 1 ms Restwelligkeit Ripple and noise max. 200 mV pp

Allgemeine Daten

Betriebstemperatur

Lagertemperatur

Überstromschutz

Luftfeuchte

Isolation

Leckstrom

General Specifications Operating temperature -10°C...+40°C Storage temperature -20°C...+70°C Humidity 10...90% RH Dielectric Withstand (Hipot) 3000VAC 1min 5mA inp.<->outp. Leackage current 0.25mA max.@240 VAC Overcurrent protection continuous, auto restart typ. 150% Überspannungsschutz Overvoltage protection CE LVD EN62368-1:2014+A11:2017 Zulassungsbestimmungen Safety requirements

EMV FMC EN55032:2015: EN55035:2017 EN61000-3-2:2019;EN61000-3-3:2013+A1:2019

RoHS 2015/863/EU RoHS

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Bestell-Information / Order Information

Modell	Ausgang Output	Last/Load Min.	Max.
HNP12-050V2	5 V	0.0 A	2.4 A
HNP12-090V2	9 V	0.0 A	1.33 A
HNP12-120V2	12 V	0.0 A	1.0 A

MEMO:

Vermerk

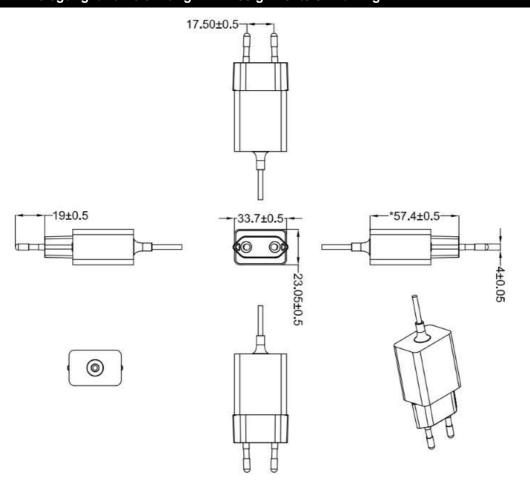
Andere Versionen (Spannungen / Stecker / Farben) mit Mindestbestellmengen auf Anfrage

Note

Other versions (Voltages / Connectors / Colors) with minimum order quantities on request

Mechanik	(Mechanical	
L×B×H	L×W×H	76.4 × 33.7 × 23 mm	
Gewicht	Weight	60 g	
DC-Stecker	DC-connector	2.1 x 5.5 x 10 mm , inside positive, outside negative	
DC-Kabel	DC-cable	L=1500mm , UL2725 24AWG	

PIN-Belegung und Zeichnung / Pin Assignments & Drawing



Energieeffizienz / Efficiency (EU) 2019/1782								
Model	Input Voltage/Frequency	Output Voltage(V)	Output Current(A)	Power for label	Average efficiency	Efficiency at 10% load	No load power consumption (Watt)	
INP06-USBL6	230Vac / 50Hz	5,0	1,50	7.5W	77,46%	78,85%	0.07W	
INP06-050L6	230Vac / 50Hz	5,0	1,50	7.5W	77,46%	78,85%	0.07W	
INP06-051-MiniUSBL6 INP06-051-MicroUSBL6	230Vac / 50Hz 230Vac / 50Hz	5,1 5,1	1,47 1,47	7.5W 7.5W	78,55% 78.01%	74,27% 73,98%	0.10W 0.10W	
1NP06-051-MICROUSBL6	230Vac / 50Hz	6,0	1,47	7.5W	78,13%	73,98%	0.10W	
INP06-090L6	230Vac / 50Hz	9,0	0,83	7.5W	81,45%	77,22%	0.06W	
INP06-120L6	230Vac / 50Hz	12,0	0,62	7.5W	80,71%	77,66%	0.09W	
NP06-MICROUSBL6	230Vac / 50Hz	5,0	1,50	7.5W	77,46%	78,85%	0.07W	
HNP06-MINIUSBL6	230Vac / 50Hz	5,0	1,50	7.5W	77,46%	78,85%	0.07W	
HNP06I-USBL6	230Vac / 50Hz	5,0	1,50	7.5W	77,13%	78,15%	0.08W	
HNP06I-050L6 HNP06I-051-MiniUSBL6	230Vac / 50Hz	5,0	1,50	7.5W 7.5W	77,13%	78,15% 74,49%	0.08W 0.10W	
HNP06I-051-MicroUSBL6	230Vac / 50Hz 230Vac / 50Hz	5,0 5,1	1,50 1,47	7.5W	78,31% 77,76%	74,49%	0.10W	
HNP06I-090L6	230Vac / 50Hz	9,0	0,83	7.5W	80,18%	76,48%	0.07W	
HNP06I-120L6	230Vac / 50Hz	12,0	0,62	7.5W	81,70%	76,52%	0.06W	
HNP06I-MicroUSBL6	230Vac / 50Hz	5,0	1,50	7.5W	77,13%	78,15%	0.08W	
HNP06I-MiniUSBL6	230Vac / 50Hz	5,0	1,50	7.5W	77,13%	78,15%	W80.0	
HNP07-050V2	230Vac / 50Hz	5.0	1,50	7.5W	77,21%	72,50%	0.06W	
HNP07-090V2	230Vac / 50Hz	9.0	0,84	7.5W	80,58%	74,04%	0.06W	
HNP07-120V2	230Vac / 50Hz	12,0	1,00	7.5W	81,05%	70,94%	0.06W	
HNP07-USBV2 HNP12-USBL6	230Vac / 50Hz 230Vac / 50Hz	5,0 5,0	1,50 2,40	7.5W 12.0W	77,15% 80,64%	72,51% 78,92%	0.06W 0.06W	
HNP12-058L6 HNP12-050L6	230Vac / 50Hz 230Vac / 50Hz	5,0	2,40	12.0W	80,64% 80,64%	78,92% 78,92%	0.06W	
HNP12-050L6 HNP12-075L6-DC90-WHI	230Vac / 50Hz	7,5	1,35	12.0W 10.1W	82,29%	76,92%	0.00VV W80.0	
HNP12-075L6-A	230Vac / 50Hz	7,5	1,35	10.1W	82,29%	76,13%	0.08W	
HNP12-090L6	230Vac / 50Hz	9,0	1,30	11.7W	83,19%	80,69%	0.07W	
HNP12-120L6	230Vac / 50Hz	12,0	1,00	12.0W	85,56%	82,15%	0.07W	
HNP12-150L6	230Vac / 50Hz	15,0	0,80	12.0W	83,12%	71,42%	0.09W	
HNP12-240L6	230Vac / 50Hz	24,0	0,50	12.0W	86,71%	77,66%	0.07W	
HNP12-MicroUSBL6	230Vac / 50Hz	5,0	2,40	12.0W	80,64%	78,92%	0.06W	
HNP12I-USBL6	230Vac / 50Hz	5,0	2,40	12.0W	80,41%	78,96%	0.06W	
HNP12I-050L6	230Vac / 50Hz	5,0 9,0	2,40 1,30	12.0W 11.7W	80,64% 83,44%	78,92% 81,01%	0.06W 0.07W	
HNP12I-090L6 HNP12I-120L6	230Vac / 50Hz 230Vac / 50Hz	12,0	1,00	12.0W	85,72%	82,15%	0.05W	
NP12I-150L6	230Vac / 50Hz	15,0	0,80	12.0W	83,12%	71,42%	0.09W	
HNP12I-240L6	230Vac / 50Hz	24,0	0,50	12.0W	86,71%	77,15%	0.07W	
HNP12I-MicroUSBL6	230Vac / 50Hz	5,0	2,40	12.0W	80,40%	79,00%	0.06W	
HNP12-050V2	230Vac / 50Hz	5.0	2,40	12.0W	82,12%	75,04%	0.06W	
HNP12-090V2	230Vac / 50Hz	9.0	1,33	12.0W	83,58%	74,58%	0.06W	
HNP12-120V2	230Vac / 50Hz	12,0	1,00	12.0W	84,02%	74,66%	0.06W	
HNP12-USBV2	230Vac / 50Hz	5,0	2,40	12.0W	83,54%	76,44%	0.06W	
HNP18-USBV2	230Vac / 50Hz	5,0	3,00	18.0W	82,17%	78,62%	0.06W	
HNP18-CV2	230Vac / 50Hz	5,0 5,0	3,00 3,00	18.0W 18.0W	82,01%	78,58% 78,75%	0.06W 0.06W	
HNP18-050V2 HNP18-090V2	230Vac / 50Hz 230Vac / 50Hz	9,0	2,00	18.0W	82,34% 85,51%	82,24%	0.06W	
HNP18-120V2	230Vac / 50Hz	12,0	1,50	18.0W	85,67%	82,62%	0.06W	
HNP18-150V2	230Vac / 50Hz	15,0	1,20	18.0W	85,63%	82,74%	0.06W	
HNP18-240V2	230Vac / 50Hz	24,0	0,75	18.0W	85,92%	83,07%	0.07W	
HNP18I-USBV2	230Vac / 50Hz	5,0	3,00	18.0W	82,26%	78,81%	0.06W	
HNP18I-CV2	230Vac / 50Hz	5,0	3,00	18.0W	82,15%	78,69%	0.06W	
HNP18I-050V2	230Vac / 50Hz	5,0	3,00	18.0W	82,30%	78,83%	0.06W	
HNP18I-090V2	230Vac / 50Hz	9,0	2,00	18.0W	85,43%	82,15%	0.06W	
HNP18I-120V2	230Vac / 50Hz	12,0 15,0	1,50 1,20	18.0W 18.0W	85,77% 95.74%	82,59%	0.06W 0.06W	
HNP18I-150V2 HNP18I-240V2	230Vac / 50Hz 230Vac / 50Hz	24,0	0,75	18.0W	85,74% 86,08%	82,95% 83,17%	0.06W 0.07W	
HNP24-090L6	230Vac / 50Hz	9,0	2,50	22.5W	86,14%	84,15%	0.07W	
HNP24-120L6	230Vac / 50Hz	12,0	2,00	24.0W	86,12%	83,58%	0.05W	
HNP24-150L6	230Vac / 50Hz	15,0	1,60	24.0W	86,74%	82,89%	0.09W	
HNP24-240L6	230Vac / 50Hz	24,0	1,00	24.0W	87,64%	84,06%	0.07W	
INP24I-090L6	230Vac / 50Hz	9,0	2,50	22.5W	86,14%	84,15%	0.05W	
INP24I-120L6	230Vac / 50Hz	12,0	2,00	24.0W	86,12%	83,58%	0.05W	
NP24I-150L6	230Vac / 50Hz	15,0	1,60	24.0W	85,98%	83,11%	0.10W	
INP24I-240L6 INP36-4USB	230Vac / 50Hz	24,0 5,0	1,00	24.0W 36.0W	87,64% 86.70%	84,06%	0.07W 0,07W	
INP36-4USB INP40-5USB	230Vac / 50Hz 230Vac / 50Hz	5,0	7,20 8,00	40.0W	86,70%	85,30% 82,61%	0,07W 0.07W	
1NP42EU-050	230Vac / 50Hz	5,0	5,00	25.0W	84,28%	80,90%	0.07W	
INP42EU-090	230Vac / 50Hz	9,0	3,00	27.0W	85,90%	81,26%	0.10W	
INP42EU-120	230Vac / 50Hz	12,0	3,50	42.0W	88,05%	84,41%	0.10W	
INP42EU-150	230Vac / 50Hz	15,0	2,80	42.0W	88,47%	84,21%	0.10W	
INP42EU-240	230Vac / 50Hz	24,0	1,75	42.0W	89,20%	84,15%	0.10W	
INP42I-050	230Vac / 50Hz	5,0	5,00	25.0W	84,28%	80,90%	0.10W	
INP42I-090	230Vac / 50Hz	9,0	3,00	27.0W	87,02%	84,03%	0.08W	
INP42I-120	230Vac / 50Hz	12,0	3,50	42.0W	87,99%	85,11%	0.07W	
INP42I-150	230Vac / 50Hz	15,0	2,80	42.0W	88,84%	86,01%	W80.0	
NP42I-240	230Vac / 50Hz	24,0	1,75	42.0W	89,65%	86,53%	W80.0	
INP65F-120 INP65F-150	230Vac / 50Hz 230Vac / 50Hz	12,0 15,0	5,00 4,30	60W 60W	88,15% 90,10%	86,23% 85,33%	0.09W 0.02W	
1NP65F-150 1NP65F-240	230Vac / 50Hz 230Vac / 50Hz	24,0	2,70	60W	90,10%	87,56%	0.02vV 0.01W	
1NP65-120L6	230Vac / 50Hz	12,0	5,00	60.0W	89,00%	83,00%	0.01VV 0,16W	
HNP65-150L6	230Vac / 50Hz	15,0	4,30	64.5W	89,50%	83,00%	0,16W	
HNP65-240L6	230Vac / 50Hz	24,0	2,72	65.2W	90,00%	83,00%	0,16W	
HNP-LED24EU-120L6	230Vac / 50Hz	12,0	2,00	24W	86,72%	83,12%	0.08W	
HNP-LED24EU-240L6	230Vac / 50Hz	24,0	1,00	24W	87,28%	85,02%	0.08W	