

**6 W
AC/DC
ADAPTER**

6 Watt Value Power

HNP06-L6 Steckernetzteil-Serie



HNP-POWER

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

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

Technische Daten Specification

(bei 25°C Umgebungstemperatur) at 25 °C ambient temperature

Eingangsdaten Input Specifications

| | | |
|-------------------------|------------------------------|-------------------|
| Eingangsspannung | Input voltages | 90...264 VAC |
| Eingangsfrequenz | Input frequency | 47...63 Hz |
| Eingangsstrom | Input current | 450mA(rms) @90VAC |
| Netzausfallüberbrückung | Hold-up time, nom.conditions | 20ms @230VAC |
| Einschaltstromstoß | Inrush current | <30A/230VAC |
| Leerlaufverlust | No load power consumption | < 0.075 Watt |

Ausgangsdaten Output Specifications

| | | |
|------------------|-------------------|------------------------|
| Leistung | Power | 7,5 Watt |
| Wirkungsgrad | Efficiency | DOE VI / CoC V5 tier 2 |
| Ausregelzeit ±2% | Recovery time ±2% | max. 1 ms |
| Restwelligkeit | Ripple and noise | max. 100mV pp |

Allgemeine Daten General Specifications

| | | |
|------------------------|------------------------------|---|
| Betriebstemperatur | Operating temperature | -10°C...+40°C |
| Lagertemperatur | Storage temperature | -20°C...+70°C |
| Luftfeuchte | Humidity | 10...90% RH |
| Isolation | Dielectric Withstand (Hipot) | 3000VAC 1min 5mA inp.<->outp. |
| Leckstrom | Leakage current | 0.25mA max.@240 VAC |
| Überstromschutz | Overcurrent protection | continuous, auto restart |
| Überspannungsschutz | Overvoltage protection | typ. 120% |
| Zulassungsbestimmungen | Safety requirements | TÜV/GS EN60950-1:2006+A11(2009)+A1(2010)+A12(2011)+A2(2013)AfPS GS 2014:01; UL60065 EN55032:2015; EN55024:2010;EN55020:2007+A11 EN61000-3-2:2014;EN61000-3-3:2013;EN55013:2013 EN55014-1:2006+A1+A2;EN55014-2:1997+A1+A2 2011/65/EU |
| EMV | EMC | |
| RoHS | RoHS | |

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Bestell-Information / Order Information

| Modell | Ausgang Output | Last/Load | |
|-------------|----------------|-----------|--------|
| | | Min. | Max. |
| HNP06-050L6 | 5 V | 0.0 A | 1.5 A |
| HNP06-090L6 | 9 V | 0.0 A | 0.84 A |
| HNP06-120L6 | 12 V | 0.0 A | 0.63 A |

MEMO:

Vermerk

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

Note

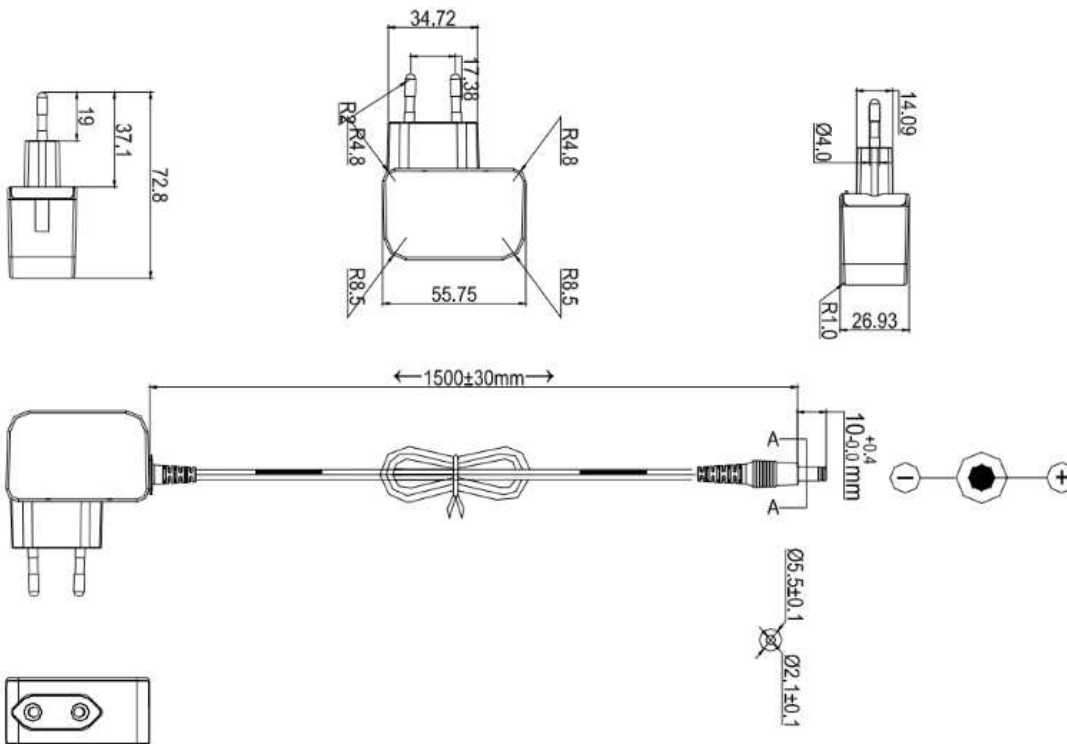
Other versions (Voltages / Connectors / Colors) with minimum order quantities on request

Mechanik

Mechanical

| | | |
|------------|--------------|---|
| L×B×H | L×W×H | 56 × 27 × 73 mm |
| Gewicht | Weight | 70 g |
| DC-Stecker | DC-connector | 2.1 x 5.5 x 10 mm , inside positive, outside negative |
| DC-Kabel | DC-cable | L=1500mm , UL2468 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) |
|----------------------|-------------------------|---------------------|-------------------|-----------------|--------------------|------------------------|----------------------------------|
| HNP06-USBL6 | 230Vac / 50Hz | 5,0 | 1,50 | 7,5W | 77,46% | 78,85% | 0,07W |
| HNP06-050L6 | 230Vac / 50Hz | 5,0 | 1,50 | 7,5W | 77,46% | 78,85% | 0,07W |
| HNP06-060L6 | 230Vac / 50Hz | 6,0 | 1,25 | 7,5W | 78,13% | 78,13% | 0,05W |
| HNP06-090L6 | 230Vac / 50Hz | 9,0 | 0,84 | 7,5W | 81,61% | 78,15% | 0,07W |
| HNP06-120L6 | 230Vac / 50Hz | 12,0 | 0,63 | 7,5W | 78,81% | 78,22% | 0,07W |
| HNP06-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 |
| HNP06J-USBL6 | 230Vac / 50Hz | 5,0 | 1,50 | 7,5W | 77,13% | 78,15% | 0,08W |
| HNP06I-050L6 | 230Vac / 50Hz | 5,0 | 1,50 | 7,5W | 77,13% | 78,15% | 0,08W |
| HNP06I-050L6-DC17.4 | 230Vac / 50Hz | 5,0 | 1,50 | 7,5W | 77,13% | 78,15% | 0,07W |
| HNP06I-090L6 | 230Vac / 50Hz | 9,0 | 0,84 | 7,5W | 82,00% | 77,11% | 0,07W |
| HNP06I-120L6 | 230Vac / 50Hz | 12,0 | 0,63 | 7,5W | 81,65% | 77,12% | 0,08W |
| 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% | 0,08W |
| HNP11-USBV2-BLACK | 230Vac / 50Hz | 5,0 | 2,10 | 10,5W | 80,12% | 77,12% | 0,09W |
| HNP11-USBV2-WHITE | 230Vac / 50Hz | 5,0 | 2,10 | 10,5W | 79,32% | 77,02% | 0,01W |
| HNP12-USBL6 | 230Vac / 50Hz | 5,0 | 2,40 | 12,0W | 80,64% | 78,92% | 0,06W |
| HNP12-050L6 | 230Vac / 50Hz | 5,0 | 2,40 | 12,0W | 80,64% | 78,92% | 0,06W |
| HNP12-050L6-DC11 | 230Vac / 50Hz | 5,0 | 2,40 | 12,0W | 80,64% | 78,92% | 0,06W |
| HNP12-075L6-DC90-WH | 230Vac / 50Hz | 7,5 | 1,35 | 10,1W | 82,29% | 76,13% | 0,08W |
| HNP12-090L6 | 230Vac / 50Hz | 9,0 | 1,33 | 12,0W | 85,12% | 83,12% | 0,09W |
| 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 |
| HNP12-150L6-RJ22-wh | 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 |
| HNP12I-USBL6 | 230Vac / 50Hz | 5,0 | 2,40 | 12,0W | 80,41% | 78,96% | 0,06W |
| HNP12I-050L6 | 230Vac / 50Hz | 5,0 | 2,40 | 12,0W | 80,64% | 78,92% | 0,06W |
| HNP12I-090L6 | 230Vac / 50Hz | 9,0 | 1,33 | 12,0W | 85,26% | 83,01% | 0,07W |
| HNP12I-120L6 | 230Vac / 50Hz | 12,0 | 1,00 | 12,0W | 85,72% | 82,15% | 0,05W |
| HNP12I-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-RS | 230Vac / 50Hz | 5,0 | 2,40 | 12,0W | 80,40% | 79,00% | 0,06W |
| HNP15-050L6 | 230Vac / 50Hz | 5,0 | 2,80 | 14,0W | 81,91% | 78,26% | 0,06W |
| HNP15-051-MicroUSBL6 | 230Vac / 50Hz | 5,2 | 2,50 | 13,0W | 80,62% | 79,12% | 0,06W |
| HNP15-090L6 | 230Vac / 50Hz | 9,0 | 1,67 | 15,0W | 84,84% | 79,26% | 0,07W |
| HNP15I-090L6-DC25.55 | 230Vac / 50Hz | 9,0 | 1,67 | 15,0W | 84,84% | 79,26% | 0,07W |
| HNP15-120L6 | 230Vac / 50Hz | 12,0 | 1,25 | 15,0W | 84,62% | 81,25% | 0,07W |
| HNP15-MicroUSBL6 | 230Vac / 50Hz | 5,0 | 2,50 | 12,5W | 81,22% | 79,56% | 0,06W |
| HNP15I-050L6 | 230Vac / 50Hz | 5,0 | 2,80 | 14,0W | 81,91% | 78,26% | 0,06W |
| HNP15I-090L6 | 230Vac / 50Hz | 9,0 | 1,67 | 15,0W | 82,18% | 78,91% | 0,07W |
| HNP15I-120L6 | 230Vac / 50Hz | 12,0 | 1,25 | 15,0W | 84,62% | 81,25% | 0,07W |
| HNP15I-150L6 | 230Vac / 50Hz | 9,0 | 1,67 | 15,0W | 82,18% | 78,91% | 0,07W |
| HNP15I-MicroUSBL6 | 230Vac / 50Hz | 5,0 | 2,50 | 15,0W | 81,22% | 79,56% | 0,06W |
| HNP18-050L6 | 230Vac / 50Hz | 5,0 | 3,00 | 15,0W | 80,79% | 78,12% | 0,07W |
| HNP18-090L6 | 230Vac / 50Hz | 9,0 | 2,00 | 18,0W | 85,12% | 83,23% | 0,09W |
| HNP18-090L6-T | 230Vac / 50Hz | 9,0 | 2,00 | 18,0W | 85,06% | 83,56% | 0,11W |
| HNP18-120L6 | 230Vac / 50Hz | 12,0 | 1,50 | 18,0W | 86,99% | 83,56% | 0,06W |
| HNP18-150L6 | 230Vac / 50Hz | 15,0 | 1,20 | 18,0W | 86,97% | 83,75% | 0,06W |
| HNP18-240L6 | 230Vac / 50Hz | 24,0 | 0,75 | 18,0W | 86,50% | 83,12% | 0,05W |
| HNP18I-050L6 | 230Vac / 50Hz | 5,1 | 3,00 | 15,3W | 80,79% | 78,12% | 0,07W |
| HNP18I-050-CL6 | 230Vac / 50Hz | 5,1 | 3,00 | 15,3W | 80,79% | 78,12% | 0,07W |
| HNP18I-051L6-C | 230Vac / 50Hz | 5,1 | 3,00 | 15,3W | 80,79% | 78,12% | 0,07W |
| HNP18I-090L6 | 230Vac / 50Hz | 9,0 | 2,00 | 18,0W | 85,12% | 83,23% | 0,09W |
| HNP18I-120L6 | 230Vac / 50Hz | 12,0 | 1,50 | 18,0W | 86,99% | 83,56% | 0,06W |
| HNP18I-150L6 | 230Vac / 50Hz | 15,0 | 1,20 | 18,0W | 86,97% | 83,75% | 0,06W |
| HNP18I-150L6-EU90 | 230Vac / 50Hz | 15,0 | 1,20 | 18,0W | 86,97% | 83,75% | 0,06W |
| HNP18I-240L6 | 230Vac / 50Hz | 24,0 | 0,75 | 18,0W | 85,75% | 83,12% | 0,08W |
| HNP24-090L6 | 230Vac / 50Hz | 9,0 | 2,50 | 22,5W | 86,14% | 84,15% | 0,05W |
| 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 |
| HNP24I-090L6 | 230Vac / 50Hz | 9,0 | 2,50 | 22,5W | 86,14% | 84,15% | 0,05W |
| HNP24I-120L6 | 230Vac / 50Hz | 12,0 | 2,00 | 24,0W | 86,12% | 83,58% | 0,05W |
| HNP24I-150L6 | 230Vac / 50Hz | 15,0 | 1,60 | 24,0W | 85,98% | 83,11% | 0,11W |
| HNP24I-240L6 | 230Vac / 50Hz | 24,0 | 1,00 | 24,0W | 87,64% | 84,06% | 0,07W |
| HNP27-4USB | 230Vac / 50Hz | 5,0 | 5,40 | 27,0W | 85,61% | 83,98% | 0,07W |
| HNP27I-C2USB | 230Vac / 50Hz | 5,0 | 5,40 | 27,0W | 83,25% | 79,02% | 0,08W |
| HNP40-5USB | 230Vac / 50Hz | 5,0 | 8,00 | 40,0W | 84,68% | 82,61% | 0,07W |
| HNP40-C4USB | 230Vac / 50Hz | 5,0 | 8,00 | 40,0W | 86,08% | 80,12% | 0,07W |
| HNP42EU-090 | 230Vac / 50Hz | 9,0 | 3,00 | 27,0W | 85,90% | 81,26% | 0,11W |
| HNP42EU-120 | 230Vac / 50Hz | 12,0 | 3,50 | 42,0W | 88,05% | 84,41% | 0,11W |
| HNP42EU-150 | 230Vac / 50Hz | 15,0 | 2,80 | 42,0W | 88,47% | 84,21% | 0,11W |
| HNP42EU-240 | 230Vac / 50Hz | 24,0 | 1,75 | 42,0W | 89,20% | 84,15% | 0,11W |
| HNP42I-090 | 230Vac / 50Hz | 9,0 | 3,00 | 27,0W | 87,02% | 84,03% | 0,08W |
| HNP42I-120 | 230Vac / 50Hz | 12,0 | 3,50 | 42,0W | 87,99% | 85,11% | 0,07W |
| HNP42I-150 | 230Vac / 50Hz | 15,0 | 2,80 | 42,0W | 88,84% | 86,01% | 0,08W |
| HNP42I-240 | 230Vac / 50Hz | 24,0 | 1,75 | 42,0W | 89,65% | 86,53% | 0,08W |
| HNP45I-CPD | 230Vac / 50Hz | 5,0/9,0/15,0/20,0 V | 3,0/2,25 A | 15,0/27,0/45,0W | >83,9% | >79,8% | 0,07W |
| HNP65F-120 | 230Vac / 50Hz | 12,0 | 5,00 | 60W | 88,15% | 86,23% | 0,09W |
| HNP65F-150 | 230Vac / 50Hz | 15,0 | 4,30 | 60W | 90,10% | 85,33% | 0,02W |
| HNP65F-240 | 230Vac / 50Hz | 24,0 | 2,70 | 60W | 90,78% | 87,56% | 0,01W |
| 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 |