

**60 W
AC/DC
UNI
ADAPTER**

60 Watt Universal Power

HNP60-UNIL6 9...24 Volt Steckernetzteil-Serie



HNP-POWER

Besondere Merkmale Features

| | |
|--------------------------------------|-------------------------------------|
| Universal-Steckerschaltnetzteil | Universal-plug in switching adaptor |
| 7 versch. Ausgangsspannungen möglich | 7 var. output voltages possible |
| 6 DC Stecker enthalten | 6 DC connectors included |
| Doppelte Isolation | Double insulated |
| Kompakter Aufbau | Small low profile package |
| Überlast- und kurzschlußfest | Overload, short circuit protection |
| Geringer Leerlaufverlust | Low standby power consumption |
| ErP Step 3 / DOE Level VI | ErP Step 3 / DOE Level VI |

Anwendung Application

| | |
|--------------------------------------|--|
| Universeller Ersatz für viele Geräte | Universal replacement for various applications |
| 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 | 1500mA(rms) @90VAC |
| Netzausfallüberbrückung | Hold-up time, nom.conditions | 20ms @230VAC |
| Einschaltstromstoß | Inrush current | <40A/230VAC |
| Leerlaufverlust | No load power consumption | < 0.21 Watt |

Ausgangsdaten Output Specifications

| | | |
|------------------|-------------------|---------------|
| Leistung | Power | max. 60 Watt |
| Wirkungsgrad | Efficiency | ErP 3 |
| Ausregelzeit ±2% | Recovery time ±2% | max. 1 ms |
| Restwelligkeit | Ripple and noise | max. 300mV pp |

Allgemeine Daten General Specifications

| | | |
|------------------------|------------------------------|--------------------------------|
| Betriebstemperatur | Operating temperature | 0°C...+40°C |
| Lagertemperatur | Storage temperature | -10°C...+80°C |
| Luftfeuchte | Humidity | 25...75% 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 | CE LVD EN62368-1:2014+A11:2017 |

EMV EMC EN55032:2015; EN55024:2010+A1:2015
EN61000-3-2:2014;EN61000-3-3:2013

RoHS RoHS 2015/863/EU

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60 W AC/DC UNI ADAPTER

Bestell-Information / Order Information

| Modell | Ausgang Output | Max. |
|-------------|----------------|--------|
| HNP60-UNIL6 | 9 V | 3.30 A |
| oder / or | 12 V | 3.30 A |
| oder / or | 13.5 V | 3.30 A |
| oder / or | 15 V | 3.30 A |
| oder / or | 18 V | 3.30 A |
| oder / or | 20 V | 2.50 A |
| oder / or | 24 V | 2.50 A |

Spannung fest einstellbar mit beiliegendem Schlüssel - Voltage fix selectable with included key

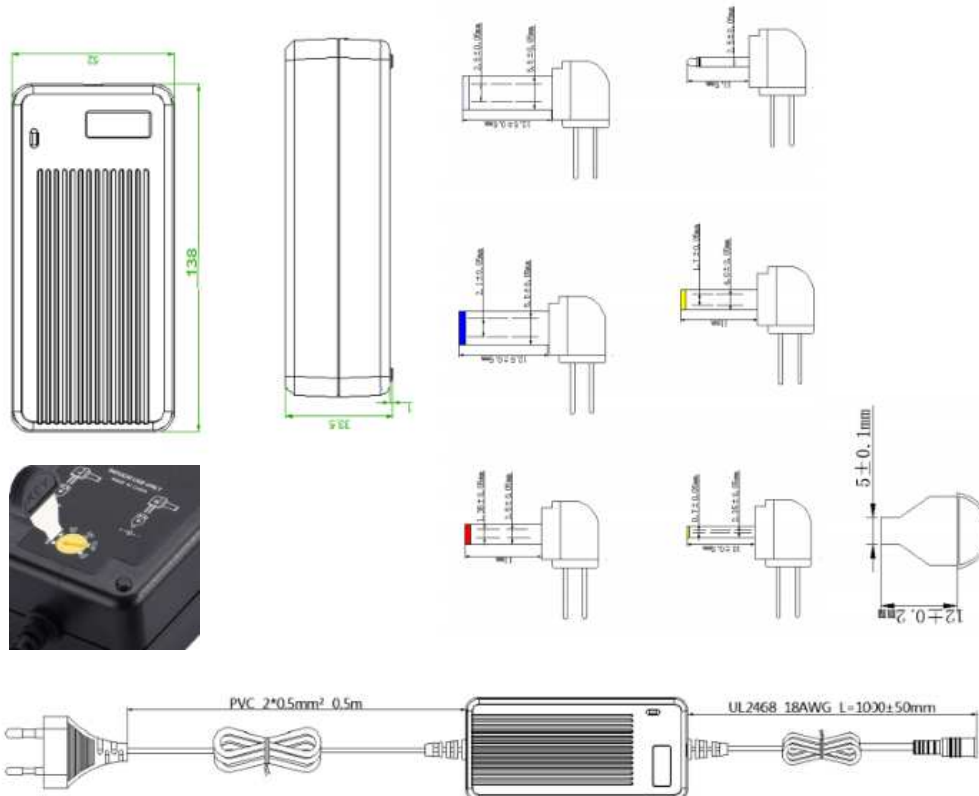
MEMO:

Mechanik

Mechanical

| | | |
|------------|--------------|---|
| L×B×H | L×W×H | 138 × 52 × 33.5 mm |
| Gewicht | Weight | 305 g |
| DC-Stecker | DC-connector | 6 variations included : |
| | | 3.5*1.35 , 5.5*2.1, 5.5*2.5, 2.35*0.7, 4.0*1.7, 2.5 mono plug |
| DC-Kabel | DC-cable | L=1000mm , UL2468 18AWG |
| AC-Kabel | AC-cable | L=500 mm, fixed with EU connector |

PIN-Belegung und Zeichnung / Pin Assignments & Drawing



Please read the manual carefully and note the safety advice.

User Manual:

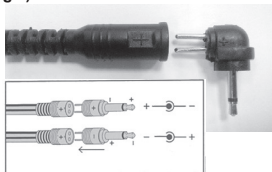
Unpack the product and check the contents inside the package.
If available, please put the AC input clip for your region on the adapter body or connect the AC cord to the adapter.
Connect the adapter to the wall socket. The operating LED (if available) will turn on when then adapter is ready to use.
Connect the cable to the device. For adapters with USB port first attach USB cable to the powersupply, then connect the device.

Please choose a fitting DC connector (fig.1), take care of the required polarity (fig.2) and select the output voltage (fig.3)

(fig.1)



(fig.1)



(fig.1)




No commitment for any damage at misuse.
In case you need technical support, please contact our support-team by e-mail under info@hnec.de


Safety advice:

- Do not pull the cable.
- Do not open the device, there are no serviceable parts inside.
- Do not expose the device to water and protect it against humidity.
- Do not use brute force when connecting the adapter.
- Keep the device away from children.
- Disconnect electronic devices from the power when not using for longer time.
- The power outlet where the adapter is used must be easily accessible.
- Do not use the device when it has visible defects.

Note on environmental protection:

 After the implementation of the European Directive 2012/19/EC in the national legal system, the following applies:
Electrical and electronic devices may not be disposed of with domestic waste. Consumers are obliged by law to return electrical and electronic devices and batteries at the end of their service lives to the public collecting points set up for this purpose or point of sale.
Details to this are defined by the national law of the respective country.

This symbol on the product, the instruction manual or the package indicates that a product is subject to these regulations. By recycling, reusing the materials or other forms of utilising old devices, you are making an important contribution to protecting our environment.

 We hereby declare, that this device carries the CE mark in accordance with the regulations and standards. It conforms with the fundamental requirements of the EMC directive 2014/30/EC as well as the Low Voltage Directive 2014/35/EC.
You can find the complete declaration of conformity and a detailed datasheet under www.hnec.de.

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) |
|-------------|-------------------------|-------------------|-------------------|-----------------|--------------------|------------------------|----------------------------------|
| HNP36-UNIL6 | 230Vac / 50Hz | 5,0 | 3,00 | 15,0W | 87,20% | 86,30% | 0,03W |
| HNP36-UNIL6 | 230Vac / 50Hz | 6,0 | 3,00 | 18,0W | 87,80% | 87,30% | 0,04W |
| HNP36-UNIL6 | 230Vac / 50Hz | 7,5 | 3,00 | 22,5W | 88,30% | 88,00% | 0,04W |
| HNP36-UNIL6 | 230Vac / 50Hz | 9,0 | 3,00 | 27,0W | 89,70% | 88,90% | 0,05W |
| HNP36-UNIL6 | 230Vac / 50Hz | 12,0 | 3,00 | 36,0W | 90,80% | 89,70% | 0,06W |
| HNP36-UNIL6 | 230Vac / 50Hz | 13,5 | 2,40 | 32,4W | 91,10% | 89,60% | 0,07W |
| HNP36-UNIL6 | 230Vac / 50Hz | 15,0 | 2,40 | 36,0W | 91,80% | 89,70% | 0,08W |
| HNP60-UNIL6 | 230Vac / 50Hz | 9,0 | 3,42 | 30,78W | 89,20% | 86,10% | 0,05W |
| HNP60-UNIL6 | 230Vac / 50Hz | 12,0 | 3,42 | 41,04W | 89,90% | 84,80% | 0,06W |
| HNP60-UNIL6 | 230Vac / 50Hz | 13,5 | 3,42 | 46,17W | 90,20% | 85,50% | 0,08W |
| HNP60-UNIL6 | 230Vac / 50Hz | 15,0 | 3,42 | 51,3W | 90,20% | 85,70% | 0,08W |
| HNP60-UNIL6 | 230Vac / 50Hz | 19,0 | 3,42 | 64,98W | 90,50% | 86,20% | 0,11W |
| HNP60-UNIL6 | 230Vac / 50Hz | 20,0 | 2,50 | 50,0W | 90,20% | 84,10% | 0,12W |
| HNP60-UNIL6 | 230Vac / 50Hz | 24,0 | 2,50 | 60,0W | 90,30% | 84,40% | 0,15W |

Rev. 1.5 13072020EUR