



**90 W  
AC/DC  
UNI  
ADAPTER**

# 90 Watt Universal Power

HNP90-UNIL6 15...24 Volt Tischnetzteil-Serie



**HNP-POWER**

Besondere Merkmale	Features
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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
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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
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(bei 25°C Umgebungstemperatur)	at 25 °C ambient temperature
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Eingangsdaten	Input Specifications
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Eingangsspannung	Input voltages	90...264 VAC
Eingangsfrequenz	Input frequency	47...63 Hz
Eingangsstrom	Input current	1500mA(rms) @90VAC
Netzausfallüberbrückung	Hold-up time, nom.conditions	10ms @230VAC
Einschaltstromstoß	Inrush current	<40A/230VAC
Leerlaufverlust	No load power consumption	< 0.19 Watt

Ausgangsdaten	Output Specifications
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Leistung	Power	max. 90 Watt
Wirkungsgrad	Efficiency	ErP 3, see table
Ausregelzeit ±2%	Recovery time ±2%	max. 1 ms
Restwelligkeit	Ripple and noise	max. 300mV pp

Allgemeine Daten	General Specifications
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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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### Bestell-Information / Order Information

Modell	Ausgang Output	Max.
HNP90-UNIL6	15 V	5.00 A
oder / or	16 V	5.00 A
oder / or	18 V	5.00 A
oder / or	19 V	4.74 A
oder / or	20 V	4.50 A
oder / or	22 V	4.10 A
oder / or	24 V	3.75 A

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

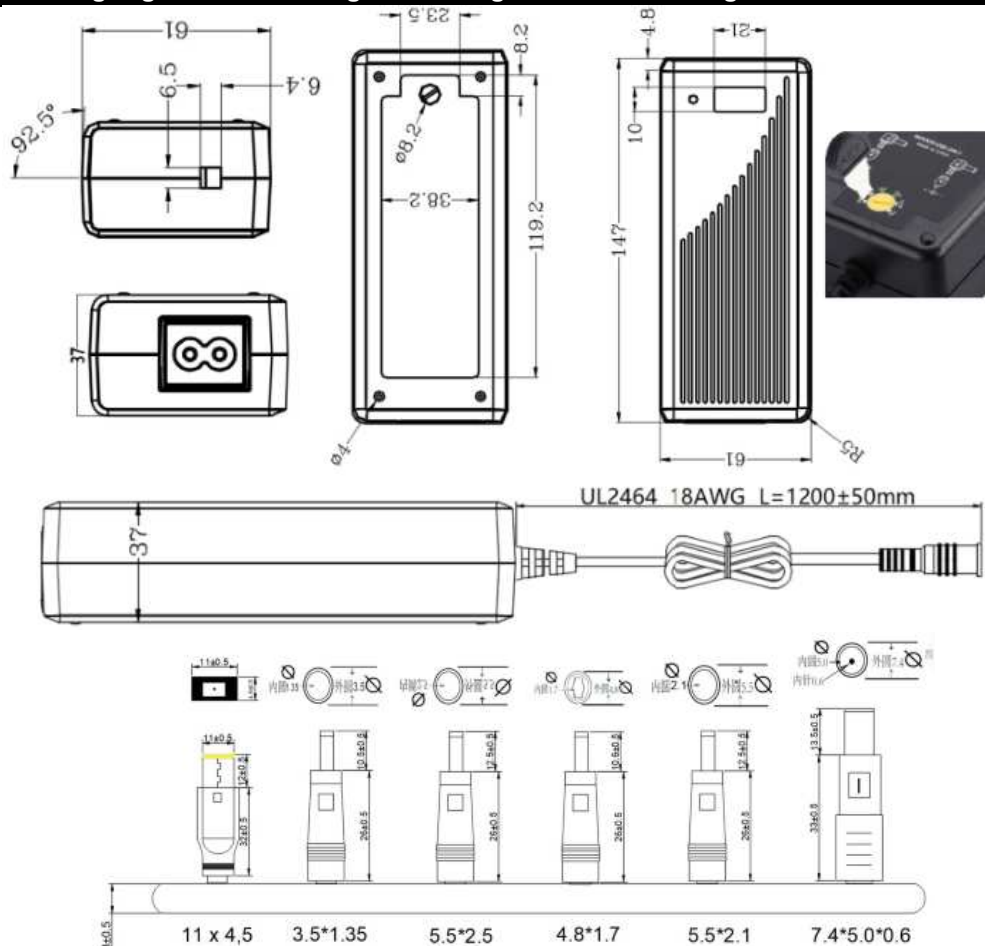
**MEMO:**

### Mechanik

### Mechanical

LxBxH	LxWxH	147 × 61 × 37 mm
Gewicht	Weight	355 g
DC-Stecker	DC-connector	6 variations included :
		11 x 4.5 ; 3.5 x 1.35 ; 5.5 x 2.5 ; 4.8 x 1.7 ; 5.5 x 2.1 ; 7.4 x 5.0 x 0.6
DC-Kabel	DC-cable	L=1000mm , UL2468 18AWG
AC-Eingang	AC-input	C8 socket

### 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)
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
HNP90-UNIL6	230Vac / 50Hz	15,0	5,00	75,0W	90,01%	88,53%	0,12W
HNP90-UNIL6	230Vac / 50Hz	16,0	5,00	80,0W	90,61%	88,04%	0,15W
HNP90-UNIL6	230Vac / 50Hz	18,0	5,00	90,0W	90,90%	88,37%	0,17W
HNP90-UNIL6	230Vac / 50Hz	19,0	4,74	90,0W	91,13%	88,32%	0,18W
HNP90-UNIL6	230Vac / 50Hz	20,0	4,50	90,0W	91,37%	88,09%	0,19W
HNP90-UNIL6	230Vac / 50Hz	22,0	4,10	90,0W	91,65%	88,17%	0,19W
HNP90-UNIL6	230Vac / 50Hz	24,0	3,75	90,0W	91,65%	88,08%	0,19W