

**20 W
AC/DC
USB Type-C™
ADAPTER**

20 Watt Value Power

HNP20EU-1C USB Type-C™ PD 3.0 Adapter



HNP-POWER

Besondere Merkmale	Features	
Steckerschaltnetzteil	Plug in switching adaptor	
Doppelte Isolation	Double insulated	
Ultra-Kompakter Aufbau	Ultra 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	
Schnellladefunktion PD 3.0 & QC 3.0	Fast Charge with USB PD 3.0 & QC 3.0	
Anwendung	Application	
Einplatinencomputer	Single board computers	
Drahtlose Kommunikation	Wireless communications	
Peripheriegeräte	Peripherals	
Netzwerktechnik	Networking	
Mobile Ausrüstungen	Portable equipment	
Tablets	Tablets	
Telekommunikation	Telecom	
Aktuelle Smartphones	Latest Smartphones	
Technische Daten	Specification	
(bei 25°C Umgebungstemperatur)	at 25 °C ambient temperature	
Eingangsdaten	Input Specifications0	
Eingangsspannung	Input voltages	100-240 VAC
Eingangsfrequenz	Input frequency	50/60 Hz
Eingangsstrom	Input current	0,7A all voltage range & output @full load
Netzausfallüberbrückung	Hold-up time, nom.conditions	20ms @230VAC
Einschaltstromstoß	Inrush current	3.1375 A²S
Leerlaufverlust	No load power consumption	< 0.1 Watt
Ausgangsdaten	Output Specifications	
Leistung	Power	20 Watt
Wirkungsgrad	Efficiency	DOE VI / CoC V5 tier 2, see page 3
Ausregelzeit ±2%	Recovery time ±2%	max. 3 s
Restwelligkeit	Ripple and noise	max. 200mV pp
Allgemeine Daten	General Specifications	
Betriebstemperatur	Operating temperature	-10°C...+25°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	Hiccup, auto restart
Überspannungsschutz	Overvoltage protection	Hiccup 18V Type-C
Zulassungsbestimmungen	Safety requirements	CE LVD EN62368-1:2014+A11:2017
EMV	EMC	EN55032:2015/A11:2020; EN55035:2017/A11:2020 EN61000-3-2:2019; EN61000-3-3:2013+A1:2019
RoHS	RoHS	EN 63000 : 2018

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Bestell-Information / Order Information

Modell	Ausgang Output	Last/Load Min.	Max.
HNP20EU-1C	5 V	0.0 A	3.0 A
oder / or	9 V	0.0 A	2.22 A - Type-C quick charging
oder / or	12 V	0.0 A	1.67 A - Type-C quick charging

MEMO:

Vermerk

Andere Versionen (Eingangstecker / Farben) mit Mindestbestellmengen auf Anfrage

Note

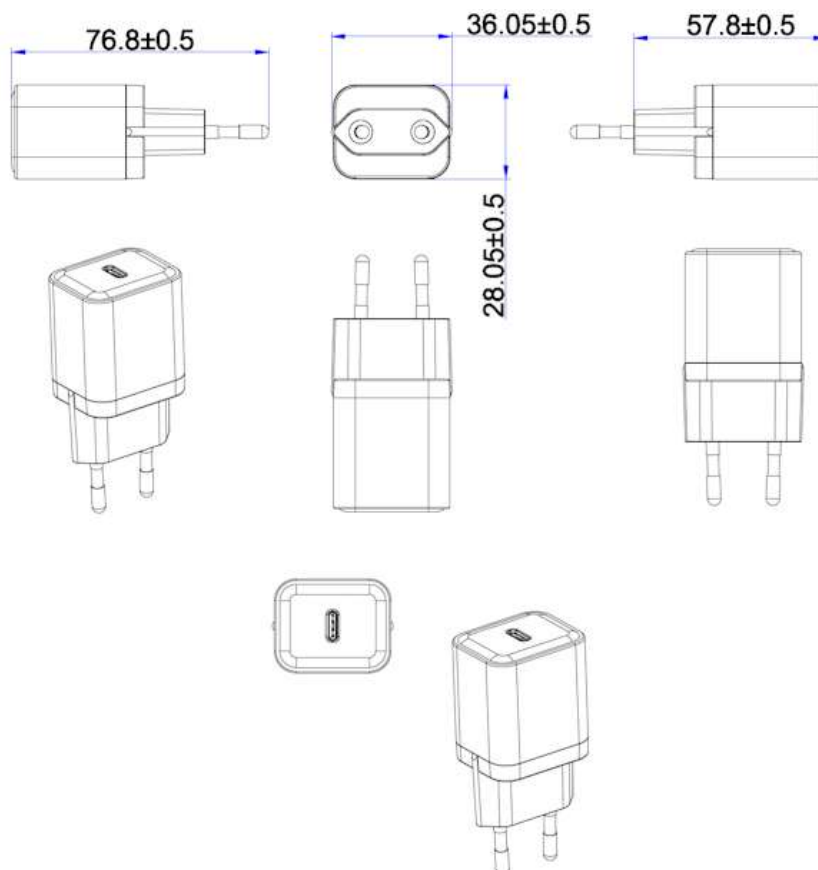
Other versions (AC-connectors / Colors) with minimum order quantities on request

Mechanik

Mechanical

L×B×H	L×W×H	36.05 × 28.05 × 77.1 mm
Gewicht	Weight	46 g
Ausgang	Output	1x USB Socket / Type-C

PIN-Belegung und Zeichnung / Pin Assignments & Drawing



Model	Input Voltage/Frequency	Output Voltage(V)	Output Current(A)	Power for label	Average efficiency	Efficiency at 10% load	No load power consumption (Watt)
HNP65EU-C	230Vac / 50Hz	5.0V	3.0A	15.0W	84,57%	84,94%	0.12W
	230Vac / 50Hz	9.0V	3.0A	27.0W	88,61%	87,08%	0.12W
	230Vac / 50Hz	12.0V	3.0A	36.0W	89,86%	86,60%	0.12W
	230Vac / 50Hz	15.0V	3.0A	45.0W	90,55%	86,28%	0.12W
	230Vac / 50Hz	20.0V	3.25A	65.0W	91,29%	86,56%	0.12W
HNP65EU-1C	230Vac / 50Hz	5.0V	3.0A	15.0W	83,93%	74,87%	0.08W
	230Vac / 50Hz	9.0V	3.0A	27.0W	87,73%	80,24%	0.08W
	230Vac / 50Hz	12.0V	3.0A	36.0W	89,28%	83,74%	0.08W
	230Vac / 50Hz	15.0V	3.0A	45.0W	90,04%	85,46%	0.08W
	230Vac / 50Hz	20.0V	3.25A	65.0W	91,06%	86,69%	0.08W
HNP100EU-2C1A	230Vac / 50Hz	C1:5.0V	C1:3A	37.5W	83,65%	70,26%	0.17W
		C2:5.0V	C2:2.25A				
		A:5.0V	A: 2.25A				
HNP100EU-2C1A	230Vac / 50Hz	C1:21.0V	C1:3.3A	91.8W	90,39%	80,80%	0.17W
		C2:5.0V	C2:2.25A				
		A:5.0V	A : 2.25A				
HNP140EU-3C1A	230Vac / 50Hz	C1:21.0V C2:21.0V C3: 5.0V A: 5.0V	C1:3.095A C2: 2.143A C3:1.5A A: 1.5A	95.0W	92,12%	82,06%	0.25W
HNP140EU-3C1A	230Vac / 50Hz	C1:5.0V C2:5.0V C3:5.0V A:5.0V	C1:3.0A C2:3.0A C3:1.5A A:1.5A	95.0W	86,54%	70,72%	0.25W
HNP20EU-1C	230Vac / 50Hz	5.0V	3.0A	15.0W	84,82%	83,06%	0.08W
	230Vac / 50Hz	9.0V	2.22A	19.98W	87,68%	82,84%	0.08W
	230Vac / 50Hz	12.0V	1.67A	20.04W	88,13%	81,24%	0.08W
HNP45EU-1C	230Vac / 50Hz	5.0V	3.0A	15.0W	85,25%	78,53%	0.08W
	230Vac / 50Hz	9.0V	3.0A	27.0W	89,28%	84,64%	0.09W
	230Vac / 50Hz	12.0V	3.0A	36.0W	90,27%	85,07%	0.11W
	230Vac / 50Hz	15.0V	3.0A	45.0W	91,04%	85,71%	0.14W
	230Vac / 50Hz	20.0V	2.25A	45.0W	90,94%	82,78%	0.19W
HNP67EU-2C1A	230Vac / 50Hz	C1:5.0V C2:5.0V A:5.0V	C1:1.75A C2:1.75A A:3.0A	32.5W	85,75%	77,25%	0.19W
	230Vac / 50Hz	C1:5.0V C2:5.0V A:20.0V	C1:1.75A C2:1.75A A:2.25A	62.5W	91,15%	82,43%	0.19W