

140 W
AC/DC
USB 3C+1A
ADAPTER

140 Watt Value Power

HNP140EU-3C+1A Adapter



Besondere Merkmale

Steckerschaltnetzteil
Doppelte Isolation
Ultra-Kompakter Aufbau
Überlast- und kurzschlußfest
Minimalster Leerlaufverlust
EU CoC V5 tier 2 / EnergyStar DOE VI
Schnellladefunktion PD 3.0 & QC 3.0

Features

Plug in switching adaptor
Double insulated
Ultra small low profile package
Overload, short circuit protection
Lowest standby power consumption
EU CoC V5 tier 2/ EnergyStar DOE VI
Fast Charge with USB PD 3.0 & QC 3.0

Anwendung

Einplatinencomputer
Drahtlose Kommunikation
Peripheriegeräte
Netzwerktechnik
Mobile Ausrüstungen
Tablets
Telekommunikation
Aktuelle Smartphones

Application

Single board computers
Wireless communications
Peripherals
Networking
Portable equipment
Tablets
Telecom
Latest Smartphones

Technische Daten

(bei 25°C Umgebungstemperatur)

Specification

at 25 °C ambient temperature

Eingangsdaten

Eingangsspannung
Eingangsfrequenz
Eingangsstrom
Netzausfallüberbrückung
Einschaltstromstoß
Leerlaufverlust

Input Specifications0

Input voltages 100-240 VAC
Input frequency 50/60 Hz
Input current 2.0A all voltage range & output @full load
Hold-up time, nom.conditions 20ms @230VAC
Inrush current 66 A²S
No load power consumption < 0.3 Watt

Ausgangsdaten

Leistung
Wirkungsgrad
Ausregelzeit ±2%
Restwelligkeit

Output Specifications

Power 140 Watt
Efficiency DOE VI / CoC V5 tier 2, see page 3
Recovery time ±2% max. 3 s
Ripple and noise max. 200mV pp

Allgemeine Daten

Betriebstemperatur
Lagertemperatur
Luftfeuchte
Isolation
Leckstrom
Überstromschutz
Überspannungsschutz
Zulassungsbestimmungen

General Specifications

Operating temperature -10°C...+25°C
Storage temperature -20°C...+70°C
Humidity 10...90% RH
Dielectric Withstand (Hipot) 3000VAC 1min 5mA inp.<->outp.
Leakage current 0.25mA max.@240 VAC
Overcurrent protection Hiccup, auto restart
Overvoltage protection Hiccup 40V Type-C
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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Ausgangsleitungen / Output Power

PD:

140W 5V/3A;9V/3A;12V/3A;15V/3A;20V/5A; 28V/5A PPS: 5-21V/5A

100W 5V/3A;9V/3A;12V/3A;15V/3A;20V/5A PPS: 5-21V/5A

87W 5V/3A;9V/3A;12V/3A;15V/3A;20V/4.35A PPS: 5-21V/4.35A

65W 5V/3A;9V/3A;12V/3A;15V/3A;20V/3.25A PPS: 5-21V/3.25A

45W 5V/3A;9V/3A;12V/3A;15V/2.5A;20V/2.25A PPS: 5-11V/3A

35W 5V/3A;9V/3A;12V/2.92A;15V/2.33A;20V/1.75A PPS: 5-11V/3A

QC27W 5V/3A;9V/3A;12V/2.25A

QC18W 5V/3A;9V/2A;12V/1.5A

15W 5V3A

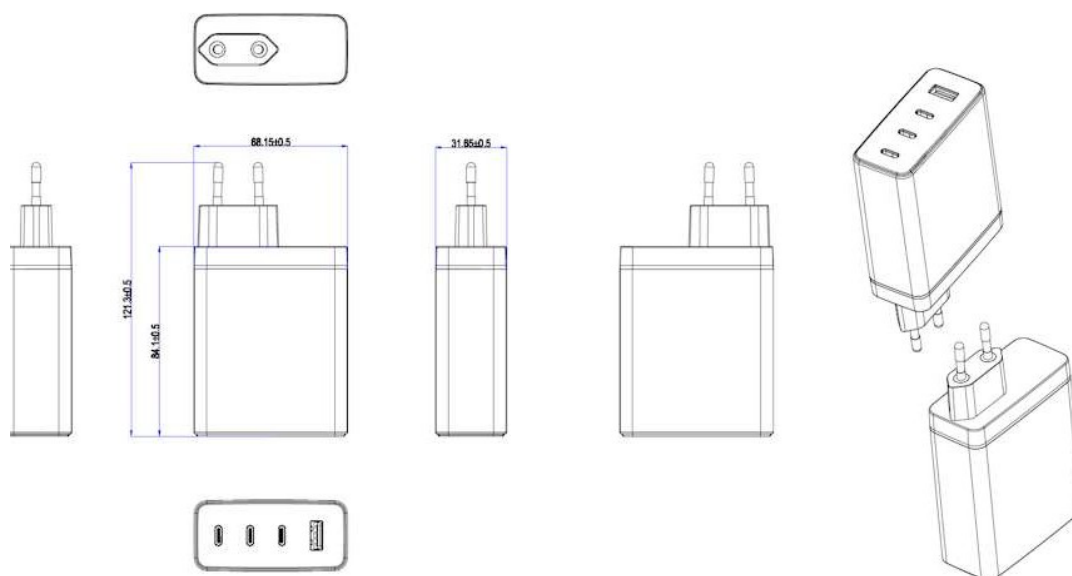
MEMO:

Mechanik

Mechanical

L×B×H	L×W×H	68.15 × 31.65 × 121.3 mm
Gewicht	Weight	346 g
Ausgang	Output	3x Type-C + 1x USB A

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