

# SNP-C08 Series

80 W AC/DC Switch Mode Power Supplies

CoolPower  
Solutions

- ITE sovelluksiin
- Korkeus vain 1.42"
- LED merkkivalo
- Lähtöjännitteen säätö-trimmerillä
- Hyötysuhde 75%...87%
- Käyttölämpötila-alue -20°C...70°C
- With ITE safety
- Only 1.42 inch height
- With power on LED
- With output adjustable trimmer
- Efficiency between 75% to 87%
- Operation from -20°C to 70°C by convection



## Tekniset tiedot

Tulojännite:  
Tulotaajuus:  
Syöksyvirta:  
  
Lähtöjännite:  
• Säätöalue:  
Maks. teho:  
Maks. virta:  
Kuormaregulointi:  
Linjaregulointi:  
  
Lämpötila-alue:  
  
Rippeli:  
Hyötysuhde:  
  
Pitoaika:  
  
Ylikuormitus suojaus:  
Oikosulkusuojaus:  
Ylijännitesuojaus:  
Jäähdytys:  
Varastointilämpötila:  
Sähköiset turvanormit:  
  
EMC standardit:  
• Emissio:  
• Immunitaetti:  
Mitat (PxLxK):  
Paino:

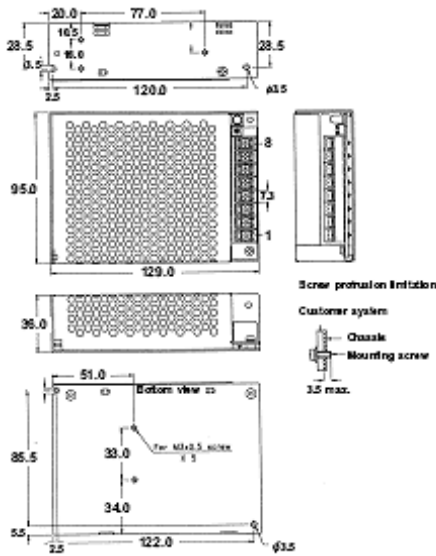
## Technical specifications

Input voltage: 85-264 VAC  
Input Frequency: 47-63 Hz  
Inrush Current: < 60 A at 230 VAC  
Cold start, 25°C  
Output voltage: See table  
• Internally adjustable: See table  
Max. output power: 80 W, Peak 120 W 8 s.  
Max. load current: See table  
Load regulation:  $\pm 1,0\%$  See table  
Line regulation:  $\pm 1,0\%$   
  
Temperature range: -20°C ... +70°C  
Derating: 2,5%/°C>50  
Ripple: See table  
Efficiency: 75% ... 87% see table  
(rated load and 115VAC)  
Hold up time: 16 ms typical  
(rated load and 115VAC)  
Overload protection: Auto recovery  
Short Circuit Protection: Auto recovery  
Over Voltage protection: Latch off  
Cooling: Free air convection  
Storage temperature: -40°C ... +75°C  
Electrical safety standard: EN 60950-1, UL 60950-1, CSA C22.2 No. 60950-1  
  
EMC standards  
• Emission: EN61000-4-2,-3,-4,-5,-6,-8,-11  
• Immunity: FCC"B", EN 55022"B", EN55011"B"  
Dimensions (LxWxH): 129 x 95 x 36 mm  
Weight: 445 g

Jotkin tekniset arvot saattavat vaihdella muiden mallien ja jänniteversioiden osalta.

Some technical specifications may differ for other models and voltage versions

### Mekaaniset tiedot – Mechanical Specifications



1. Dimensions shown in mm as left. Tolerance:  $\pm 0.4$  mm.
2. Size 95 x 129 x 36 mm.
3. Connectors: AC input & DC output:  
Terminal Blocks, 8.25 mm interval
4. Output Pin assignment:

Pin no:	1	2	3	4	5	6	7	8
SNP-C08B	AC/L	AC/N	Earth	GND	+3.3V			
SNP-C086	AC/L	AC/N	Earth	GND	+5.0V			
SNP-C087	AC/L	AC/N	Earth	GND	+12V			
SNP-C088	AC/L	AC/N	Earth	GND	+15V			
SNP-C089	AC/L	AC/N	Earth	GND	+24V			
SNP-C08T	AC/L	AC/N	Earth	GND	+48V			
SNP-C083	AC/L	AC/N	Earth	+12 V	GND	+5.0V		
SNP-C08A	AC/L	AC/N	Earth	+24 V	GND	+5.0V		
SNP-C080	AC/L	AC/N	Earth	-12 V	-5V	+12V	GND	+5.0V
SNP-C084	AC/L	AC/N	Earth	-15 V	-5V	+15V	GND	+5.0V
SNP-C08F	AC/L	AC/N	Earth	-12 V	+24V	+12V	GND	+5.0V

### Jänniteversiot – Voltage versions

Malli Model	Lähtöjännite (VDC) Output voltage (VDC)		Kuormitus (A) Load (A)				Rippeli Ripple	Load reg. Regulointi	Hyötysuhde Efficiency Typical
	Nimellinen Nominal	Säätöalue Adjustable	Min	Rated	Max	Peak			
SNP-C08B	+3,3 V	3.25 V...3.355 V	0 A	17 A		27 A	50mVpp	$\pm 1$ %	75 %
SNP-C086	+5,0 V	4.95 V...5.050 V	0 A	14 A		23 A	50mVpp	$\pm 1$ %	80 %
SNP-C087	+12 V	11.40 V...12.60 V	0 A	7.0 A		10.5 A	120mVpp	$\pm 1$ %	84 %
SNP-C088	+15 V	14.25 V...15.75 V	0 A	5.3 A		8.0 A	150mVpp	$\pm 1$ %	84 %
SNP-C089	+24 V	22.80 V...25.20 V	0 A	3.3 A		5.0 A	240mVpp	$\pm 1$ %	86 %
SNP-C08T	+48 V	45.60 V...50.40 V	0 A	1.7 A		2.6 A	240mVpp	$\pm 1$ %	86 %
SNP-C083	+5 V	4.95 V...5.05 V	0 A	7.0 A	10 A	12 A	50mVpp	$\pm 2$ %	82 %
	+12 V	11.40 V...12.60 V	0 A	3.0 A	4.0 A	5.0 A	120mVpp	$\pm 2$ %	
SNP-C08A	+5 V	4.95 V...5.05 V	0 A	5.0 A	8.0 A	10 A	50mVpp	$\pm 2$ %	82 %
	+24 V	11.40 V...12.60 V	0 A	2.0 A	3.0 A	4.0 A	480mVpp	$\pm 2$ %	
SNP-C080	+5 V	4.95 V...5.05 V	0 A	6.0 A	8.0 A	10 A	50mVpp	$\pm 2$ %	80 %
	+12 V	11.40 V...12.60 V	0 A	2.5 A	4.0 A	5.0 A	120mVpp	$\pm 2$ %	
	-12 V	-11.40 V...-12.60 V	0 A	0.5 A	1.0 A		120mVpp	$\pm 3$ %	
	-5 V	-4.95 V...-5.05 V	0 A	0.5 A	1.0 A		50mVpp	$\pm 3$ %	
SNP-C084	+5 V	4.95 V...5.05 V	0 A	6.0 A	8.0 A	10 A	50mVpp	$\pm 2$ %	80 %
	+15 V	14.25 V...15.75 V	0 A	2.0 A	3.0 A	4.0 A	120mVpp	$\pm 2$ %	
	-15 V	-14.25 V...-15.75 V	0 A	0.5 A	1.0 A		120mVpp	$\pm 3$ %	
	-5 V	-4.95 V...-5.05 V	0 A	0.5 A	1.0 A		50mVpp	$\pm 3$ %	
SNP-C08F	+5 V	4.95 V...5.05 V	0 A	4.0 A	6.0 A	8.0 A	50mVpp	$\pm 2$ %	81 %
	+12 V	11.40 V...12.60 V	0 A	1.5 A	3.0 A	4.0 A	120mVpp	$\pm 2$ %	
	+24 V	22.80 V...25.20 V	0 A	1.0 A	1.5 A	2.5 A	240mVpp	$\pm 3$ %	
	-12 V	-11.40 V...-12.60 V	0 A	0.5 A	1.0 A		50mVpp	$\pm 3$ %	

\* Saatavilla myös DIN-kiskokiinnikkein  
\* Available with bracket for DIN-rail montage.

### Huomioitavaa – Notes

1. The max load can be continuously provided at 50°C and convection cooling conditions. The peak load can be temporarily provided up to 8 seconds.
2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
3. Line regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
4. Load regulation is defined by changing  $\pm 40\%$  of measured output load from 60% rated load at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47 $\mu$ F + 10 $\mu$ F capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drop down to regulation limit at rated load and nominal line.