

» CPS3-SVE-250AC «



250W AC Power Supply for CompactPCI® Serial

- » High efficiency up to 92%
- » Wide input range 85 264 VAC
- » Extended temperature fanless
- » EMI EN55022 Class B, UL, CSA

CPS3-SVE-250AC

250W AC Power Supply for CompactPCI® Serial

For flexible, reliable, and energy saving usage

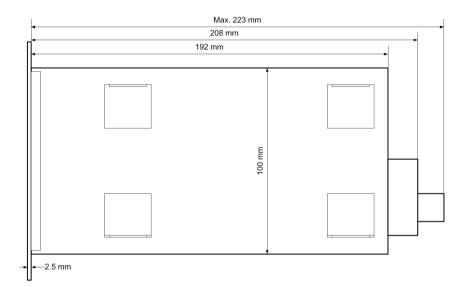
The CPS3-SVE-250AC provides all basic features to run a CompactPCI® Serial system. Several protection and regulation options, basic monitoring functions, and its hold-up time make the power supply a reliable system component. It provides +12V output and +5V standby, and therefore is not intended for use in classic CompactPCI® systems. The product meets EMI EN55022 Class B, a must for many applications. High efficiency and low standby input power is energy-saving and makes system cooling easier. Its wide input range of 85-264 VAC, and its operating temperature range of -25°C up to 70°C, even fanless with convection cooling, show how flexibly this power supply can be deployed.

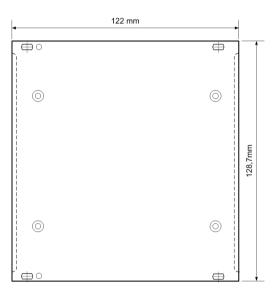
Whenever cost saving is more important

Whenever some advanced features like hot-plug, redundancy, and PMBUS support are not required, and cost saving is more important, CPS-SVE-250AC is the right choice for CompactPCI® Serial systems.

Integrated part of a CPCI Serial card cage

The power supply is horizontally mounted into a cartridge to enable convection cooling. A guide rail and a backplane connection cable is included. The article is non-pluggable and comes as integrated part of a standard card cage. For integration into an alternative, custom selected enclosure and backplane, the power supply shall be combined with Kontron's "AC Input Kit and Integration Service" CP-MKIT-AC-IN.





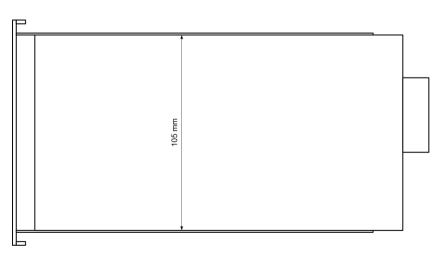


Figure: Mechanical dimensions, CPS3-SVE-250AC

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Technical Information

Mechanical

Formfactor

Mounting

System connection

Dimension LxWxH

Front panel size

Weight

Input

AC Input Voltage

Imput Frequency

DC Input Voltage

Inrush Current (cold start)

Power Factor

Input Current

Leakage Current (Typ)

Standby Input Power

Output and Regulation

Output Power

Output Voltage

Auxiliary Supply

Hold Up Time

Temperature Coefficient

Adjustment Range

Output Current

Load Regulation

Line Regulation

Ripple&Noise

Efficiency (230VAC)

Protection and Control

Overcurrent Protection

Overvoltage Protection

Overtemperature Protect

Remote Sense

Remote On/Off

Monitoring Signal

Safety, Regulatory, and EMI

Withstand Voltage

Isolation Resistance

Immunity

Safety Agency Approvals

Conducted & Radiated EMI

Environmental

Operating Temperature

Storage Temperature

Operating Humidity

Storage Humidity

Cooling

Vibration (non operating)

Shock (in package)

3U 24HP Cartridge

Non-pluggable, integrated part of a card cage

Cable to backplane (included), screw terminals for AC input

225 x 122 x 128,7 mm

122 x 128,7 mm

1.250 q

85 - 264 VAC (300VAC for 5s)

47 - 63 Hz

120 - 373 VDC

20A at 115 VAC, 40A at 230 VAC

Meets EN61000-3-2 (Typical PF 0.98/0.95 at 115/230VAC) Class A, Class C> 25% Load

3.0 / 1.4 A (at 115/230VAC)

0.75mA at 230VAC

<0.5W when remote off and 5V Aux supply at no load

250 W max. Linear derating from 50°C to 50% power at 70°C (attached: output derating curve)

12V

5V/0.3A

16 ms

<0.02%/°C

10.8V - 13.2V

21A max.

96mV

48mV

120mV

92% (for 230 VAC)



13.8 - 16.2V (recycle AC, or use remote on/off to reset)

Yes (recycle AC, or use remote on/off to reset)

No

Active Low

DC OK, open collector signal, High on Fail (Active Low)

Input to FG 1.5kVAC (20mA), Input to Output 3kVAC (20mA), output to FG 500VAC (100mA) for 1 min

>100MΩ at 25°C & 70%RH

Built to meet EN61000-4-2 (Level 2,3), -3 (Level 3), -4 (Level 3), -5 (Level 4), -6 (Level 3), -8 (Level 4), -11

UL60950-1, CSA C22.2 No.60950-1-07 (2nd Edition), EN60950-1, IEC60950-1 (2nd Edition), CE

Built to meet EN55022-B, CISPR22-B

-25°C to +70°C. (Refer to Output Derating Curve) Guaranteed Start Up at -40°C

-30°C to +85°C

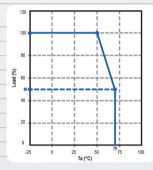
30 - 90% RH (non condensing)

10 - 95% RH (non condensing)

Convection

10 - 55Hz: 19.6m/s2 Constant sweep 1 min X, Y, Z for 1 hour each

< 196.1 m/s2 (20G)



Ordering Information

Article

CPS3-SVE-250AC

Related product: CP-MKIT-AC-IN

Description

Power Supply for CompactPCI-Serial. 250W, 85-240 VAC, 3U 24HP. Nominal voltage/max current: +12V/21A, Standby +5V/0.3A. Operating temperature -25°C to 70°C, startup from -40°C, linear derating from 50°C. Hold-up time 16 ms. Non-pluggable. Cartridge with guide rail and backplane connecting cable.

AC Input Mounting Kit and Rack Integration Service for 3U CPCI and CPCI-Serial. AC Input Kit 8HP, front or rear side. Integration and connecting of PSU and backplane. System drawing mandatory!

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