

# CPS3-SVE-250AC

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## 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

POSSIBILITIES START HERE



**kontron**

# CPS3-SVE-250AC

## 250 W AC POWER SUPPLY FOR CompactPCI® SERIAL

### For flexible, reliable, and energy saving usage

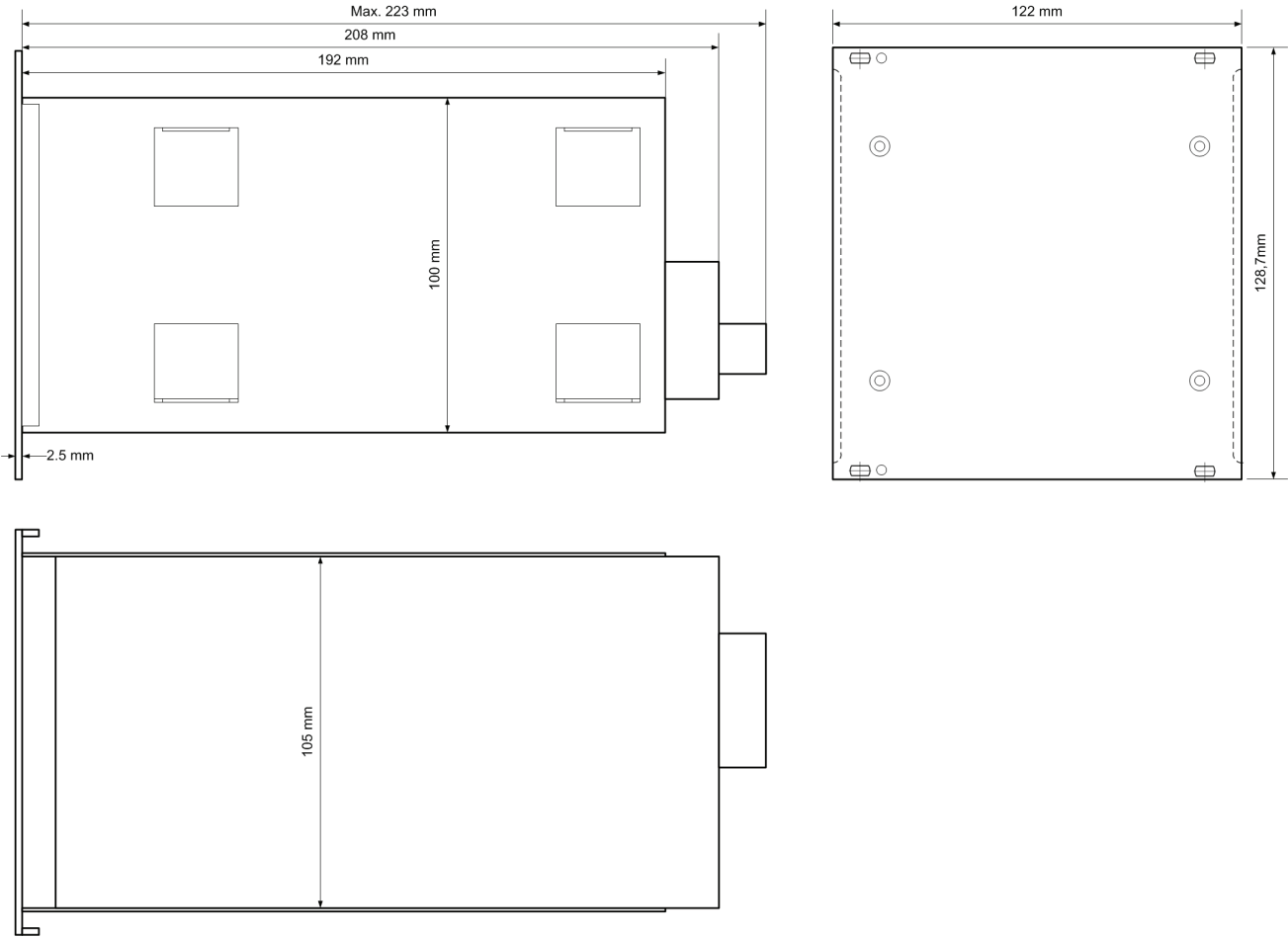
The CPS3-SVE-250AC provides all basic features to run a CompactPCI® Serial system. Several protection and regulation options, basic monitoring functions, and its hold-up time make the power supply a reliable system component. It provides +12 V output and +5 V standby, and therefore is not intended for 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

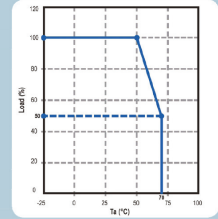
The power supply is horizontally mounted into a cartridge to enable convection cooling. A guide rail and a backplane connection cable is included. The article is non-pluggable and comes as integrated part of a standard card cage. For integration into an alternative, custom selected enclosure and backplane, 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

## TECHNICAL INFORMATION

<b>MECHANICAL</b>	<b>FORMFACTOR MOUNTING SYSTEM CONNECTION DIMENSION L X W X H FRONT PANEL SIZE WEIGHT</b>	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 g
<b>INPUT</b>	<b>AC INPUT VOLTAGE INPUT FREQUENCY DC INPUT VOLTAGE INRUSH CURRENT (COLD START) POWER FACTOR</b>  <b>INPUT CURRENT LEAKAGE CURRENT (TYP) STANDBY INPUT POWER</b>	85 - 264 VAC (300 VAC 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 115/230 VAC) 0.75mA at 230 VAC <0.5 W when remote off and 5 V Aux supply at no load
<b>OUTPUT AND REGULATION</b>	<b>OUTPUT POWER</b>  <b>OUTPUT VOLTAGE AUXILIARY SUPPLY HOLD UP TIME TEMPERATURE COEFFICIENT ADJUSTMENT RANGE OUTPUT CURRENT LOAD REGULATION LINE REGULATION RIPPLE&amp;NOISE EFFICIENCY (230VAC)</b>	250 W max. Linear derating from 50 °C to 50 % power at 70 °C (attached: output derating curve) 12 V 5 V/0.3 A 16 ms <0.02 % / °C 10.8 V - 13.2 V 21 A max. 96 mV 48 mV 120 mV 92 % (for 230 VAC)
<b>PROTECTION AND CONTROL</b>	<b>OVERCURRENT PROTECTION OVERVOLTAGE PROTECTION OVERTEMPERATURE PROTECT REMOTE SENSE REMOTE ON/OFF MONITORING SIGNAL</b>	>105 % rated output power or >101 % of peak output power 13.8 - 16.2 V (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)
<b>SAFETY, REGULATORY, AND EMI</b>	<b>WITHSTAND VOLTAGE ISOLATION RESISTANCE IMMUNITY SAFETY AGENCY APPROVALS CONDUCTED &amp; RADIATED EMI</b>	Input to FG 1.5 kVAC (20 mA), Input to Output 3 kVAC (20 mA), output to FG 500 VAC (100 mA) for 1 min >100 MΩ 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
<b>ENVIRONMENTAL</b>	<b>OPERATING TEMPERATURE STORAGE TEMPERATURE OPERATING HUMIDITY STORAGE HUMIDITY COOLING VIBRATION (NON OPERATING) SHOCK (IN PACKAGE)</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 - 55 Hz: 19.6 m/s <sup>2</sup> Constant sweep 1 min X, Y, Z for 1 hour each < 196.1 m/s <sup>2</sup> (20G)



## ORDERING INFORMATION

ARTICLE	DESCRIPTION
CPS3-SVE-250AC	Power Supply for CompactPCI-Serial. 250 W, 85-240 VAC, 3U 24HP. Nominal voltage/max current: +12 V/21 A, Standby +5 V/0.3 A. 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.
<b>RELATED PRODUCT: CP-MKIT-AC-IN</b>	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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