



Power supply unit with E-bus/K-bus interface

CX2100-0xxx | Power supply units and UPS modules for CX2000

The CX2100 power supply and UPS modules are used for supplying power to the components (CPU modules, system and extension modules) of a CX20x0 system. The power supply modules are controlled via TwinCAT A FSTN LC display with 2 x 16 characters and a selector switch as well as an enter key allow the querying of internal status values as well as self-created display parameters or menus with and without input options.

K-bus or alternatively EtherCAT terminals can be connected on the right-hand side – the respective bus system is detected automatically and operated by the CPU. Power is supplied to the E-bus or K-bus electronics in the I/O terminals by an integrated, but internally separate power supply unit with 2 A at 5 V DC.

All power supply units from the CX2000 series are in principle passively cooled, have no fans and are intended for operation in the extended temperature range from -25...+60 °C. A choice of four different power supply units is available for the CX2000 CPUs:

- The standard power supply CX2100-0004 provides a maximum output of 45 W.
- The more powerful CX2100-0014 power supply unit offers a maximum output of 90 W and has to be used for CX2040 systems equipped with quad-core CPUs. Thanks to its wider housing front the CX2100-0014 also allows passive ventilation through the front and is thus also suitable for horizontal mounting positions. Optionally the CX2100-0014 can be equipped with active ventilation (fan option) to provide the normally fanless CX2020 or CX2030 systems with a better heat dissipation for operation in different ambient conditions.
- In addition to the power supply functionality, the CX2100-0904 module also features an integrated capacitive UPS. In the event of a power failure this enables the system to save data on the storage medium and then shut down in an orderly manner.
- The CX2100-0914 module can be used to charge external battery packs in order to provide backup power for the system and external components such as Control Panels.

Technical data	CX2100-0004	CX2100-0014	CX2100-0904	CX2100-0914
Power supply	24 V DC (-15 %/+20 %)			
Dielectric strength	500 V (supply/internal electronics)			
Max. output	45 W	90 W	45 W	90 W
I/O connection	E-bus (EtherCAT Terminals) or K-bus (Bus Terminals), automatic recognition			
Current supply I/O terminals	2 A			
UPS	-	-	capacitively integrated	external Smart Battery
Charge	-	-	75 As	dependent on battery
Type of connection	spring-loaded technique (adapter terminal)			
Display	FSTN display 2 lines x 16 characters of text, illuminated			
Diagnostics LED	1 x PWR, 1 x I/O Run, 1 x I/O Err			
Max. power consumption	3.5 W			
Dimensions (W x H x D)	39 mm x 100 mm x 91 mm	64 mm x 100 mm x 91 mm	117 mm x 100 mm x 91 mm	73 mm x 100 mm x 91 mm
Weight	approx. 375 g	approx. 550 g	approx. 1030 g	approx. 800 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C	-25...+60 °C/-40...+85 °C	-25...+50 °C/-25...+60 °C	-25...+60 °C/-25...+85 °C
Relative humidity	95 %, no condensation			
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27			
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4			
Protection class	IP 20			
Approvals	CE, UL	CE, UL	CE	CE



Product announcement

CX2100-0004, CX2100-0014, CX2100-0904: available
CX2100-0914: estimated market release 3rd quarter 2014

