System Devices
Power Supply

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	Ref.-No.
KNX uninterrupted	
power supply 640 mA	**USV 640 MA**
ETS-product family:	System component
Product type:	Power supply
Series embodiment (SE)-device (8 units)	

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The uninterrupted KNX power supply generates and monitors the system voltage.
The integrated choke decouples the power supply and the bus-line.
In order to buffer the KNX system-voltage during power failure, up to two 12 V lead-gel batteries can be connected.
The batteries are charged by the power supply. The charging voltage is controlled temperature depending by the temperature sensor.
In case of a power failure the uninterrupted power supply will be supplied by the batteries.
The temperature sensor must be connected for a proper charging of the batteries.
Via a floating change-over contact a failure of the uninterrupted power supply will be reported and stored. The following failures cause a switch-over: power failure, battery failure, overvoltage, over load and short circuit.
The max. charging time of the lead-gel battery amounts to 28 hours (1 x 12 Ah-battery) respectively 56 hours (2 x 12 Ah-batteries in parallel).

4 Technical data:

Supplying	
Voltage:	230 V AC, +10/–15 %, 45 ... 65 Hz
Power consumption:	< 60 VA
Power loss:	< 10 W
KNX Output	
Number	1 line with integrated choke
Output voltage:	30 V DC, +1/–2 V, SELV
Nominal current:	640 mA, permanent short circuit proof
Permanent short-circuit current:	< 1.5 A
Mains failure bridgeover time:	200 ms (without connected battery)
Battery type:	lead-gel battery
Number:	max. 2 in parallel
Rated voltage:	recommended 1 Ah, 7 Ah, 12 Ah, 17 Ah
Rated battery charge current:	650 mA, at battery capacity > 5 Ah 150 mA, at battery capacity < 5 Ah
Temperature control:	temperature-controlled charging voltage via temperature sensor
Floating contact	
Rated voltage:	230 V AC resp. 12/24 V AC/DC
Max. switching current:	6 A AC resp. 4 A DC
Min. switching current:	100 mA (at U < 30 V AC/DC)
Connections	
Change-over contact:	3 screw terminals each
Battery and temperatur sensor:	2 screw terminals each
Screw terminals:	0.2 ... 4 mm^2
Operation temperature:	–5°C ... +45°C