

> POWER SUPPLY MODULES PS230-30 AND PS230-30E

Comforte line



Characteristics

- part of the Comforte line
- versions available with different connectors for power supply input and output.

Part of the Comforte line

The power supply module is part of the Comforte line and delivers a stable 24 VAC supply to the connected Comforte modules and sensors.

The Comforte-line range

Name	Description
Comforte CX base module	module with processor, memory, communication and I/O on the main circuit board
Comforte CX2 base module	
Comforte CX2E base module	
Power supply module PS230-30 (GST/SC)	module for 24 VAC power supply to base module, I/O modules and any sensors and actuators
Power supply module PS230-30E (GST/terminal block)	
Roombus power supply module PS230-30-15RE (GST/terminal block)	module for: <ul style="list-style-type: none"> • 24 VAC power supply to base module, I/O modules and any sensors and actuators • 24 VDC power supply and neutral point connection of Roombus devices
Fan module RO1-3 (GST/SC)	I/O module with relay for fan control (on/off, 2 or 3 speed)
Lighting module RO2-1L (GST/SC)	I/O module with relay for switching 2 lighting groups on/off
Lighting module RO2-1L NC (GST/SC)	I/O module with relay (normally closed) for switching 2 lighting groups on/off
Sun blind module RO2-2 (GST/SC)	I/O module with relay for controlling 2 sun blind motors
Sun blind module RO2-2 DC (BL/SC)	I/O module with relay for controlling 2 sun blind motors
TRIAC output module SO4-1 (GST/SC)	I/O module with 4 TRIAC outputs
Analogue output module AO2-1 (GST/SC)	I/O module with 2 analogue outputs
Comset CX	Operating unit

General specifications of the Comforte line

Housing	
Material	aluminium with plastic end plates
Colour	aluminium with grey-black (RAL 7021) end plates
Shape	as per DIN 43880
IEC protection class	I (basic insulation with earth wire)
IP code	IP20 (NEN-EN-IEC 60529)
Flammability	HB
Recycle code	7
Mounting ¹	snaps onto DIN rail on gusset plate using 4x M5 bolts (maximum screw depth: 5.5 mm) in an enclosed control panel, distribution box, above a suspended ceiling or in a public space

¹ In the case of installation in a closed housing, Priva recommends applying ventilation openings in the housing. This will reduce the temperature of the electronic components and thus extend the service life. The temperature in the housing must always be within the specified permissible temperatures.

Environment	
Permissible temperature when system operating	0 ... 50°C
Permitted temperature during transport and storage	-20 ... 70°C
Permissible ambient relative humidity	80% at T ≤ 30°C, decreasing linearly to 50% at T = 40°C (non condensing)
Installation category	II
Permitted ambient pollution	pollution degree 2

Legislation and standards	
EC Declaration of Conformity	<p>The Comforte CX line is in accordance with the following directives and associated standards and normative documents:</p> <ul style="list-style-type: none"> • Low Voltage Directive 2014/35/EU • EMC Directive 2014/30/EU <p>Safety standard:</p> <ul style="list-style-type: none"> • EN 61010-1: 2010 <p>EMC standards:</p> <ul style="list-style-type: none"> • EN 61326-1 (2013) • EN 61000-6-1 (2007) • EN 61000-6-2 (2005) + AC (2005) • EN 61000-6-3 (2007) + A1 (2011) • EN 61000-3-2 (2006) + A1 (2009) + A2 (2009) • EN 61000-3-3 (2008) • WEEE directive 2012/19/EU • RoHS directive 2011/65/EU <p>You can find an original version of the EC Declaration of Conformity on the Priva Support Portal: https://support.priva.nl.</p>

I/O connections	
Type of connector (module dependent)	spring clamps pluggable terminal block plug-in GST18 connector plug-in screw connectors

Spring clamps	
Permitted core cross section area	solid or flexible: 0.5 to 2.5 mm ² flexible with crimp-on terminal in accordance with DIN 46228/1: 0.25 to 1.5 mm ²

Terminal block: RS485 connector	
Permitted core cross section area	solid: 0.2 ... 1.5 mm ² (25 ... 16 AWG) flexible with crimp-on terminal: 0.2 ... 1.0 mm ² (25 ... 17 AWG)
Strip length/connector length	solid: 8 mm (0.31 inch) flexible with crimp-on terminal: 8 mm (0.31 inch)

Other terminal blocks	
Permitted core cross section area	solid: 0.2 ... 2.5 mm ² (25 ... 14 AWG) flexible with crimp-on terminal: 0.2 ... 2.5 mm ² (25 ... 14 AWG) flexible with double ferrule connector: 0.2 ... 1.5 mm ² (25 ... 16 AWG)
Strip length/connector length	solid: 10 mm (0.39 inch) flexible with crimp-on terminal: 10 mm (0.39 inch) flexible with double ferrule connector: 12 mm (0.47 inch)

Specifications

General				
Article	Power supply module 230/24 VAC 30 VA Comforte CX PS230-30 GST18	Power supply module 230/24 VAC 30 VA Comforte CX PS230-30E GST18	Power supply module 230/24 VAC 30 VA Comforte CX PS230-30 SC	Power supply module 230/24 VAC 30 VA Comforte CX PS230-30E
Article number	400044	400061	400054	400058
Dimensions	90 x 90 x 72 (WxHxD in mm) (5TE)			
Weight	960 grams			

Supply input				
Type of connector	3-pin GST18 connector (male) (Code 1)	3-pin GST18 connector (male) (Code 1)	5 pin spring clamps	5-pin pluggable terminal block
Voltage	230 VAC (196 to 253 VAC)			
Required mains frequency	50 Hz / 60 Hz			
Used power	38 VA			
Required installation fuses	Maximum 16 A			

Supply output				
Type of connector	3-pin spring clamps	3-pin pluggable terminal block	3-pin spring clamps	3-pin pluggable terminal block
Rated voltage	24 VAC ±0.5V			
Open circuit voltage at nominal input voltage	27 VAC ±0.5V			
Maximum load current	0.9 A (continuous) 1.25 A (for 2 minutes)			
Protection	Glass fuse 1.25 A(T), 5 x 20 mm			

LED				
VAC OUT	N/a.	LED on indicates voltage at the power supply output	N/a.	LED on indicates voltage at the power supply output

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