

# ABB i-bus<sup>®</sup> KNX Power Supplies with diagnostics Product Information

Power and productivity  
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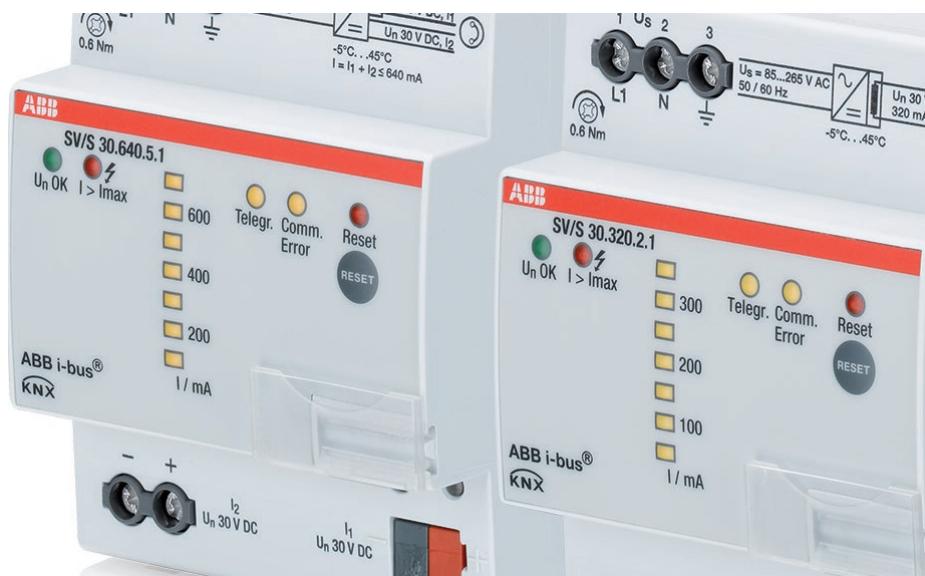
# ABB i-bus® KNX Power Supplies with diagnostics

## Safe bus voltage and expanded diagnostics

The new ABB i-bus KNX Power Supplies with diagnostics feature an expanded LED display for indication of the momentary current load in the bus line and for quick diagnostics of the bus state. The state values are also provided on the KNX system by means of ETS communication objects. The ABB i-bus tool also permits detailed analysis.

Two versions for bus loads of 320 and 640 mA are available, each with integrated choke and wide range inputs for supply voltages from 85 to 265 V AC at 50/60 Hz, in MDRC housing (4 modules width). The device with 640 mA features a voltage output without choke to power another bus line in combination with an additional choke.

Connection to the bus is performed via bus terminals. All other connections are made reliably and quickly via combination head screws.



## Quick visual diagnostics and trouble shooting via LED display

The LED display on the front of the device permits quick visual diagnostics of the momentary current load in the bus line and the momentary operating state.

## Overview of KNX functions

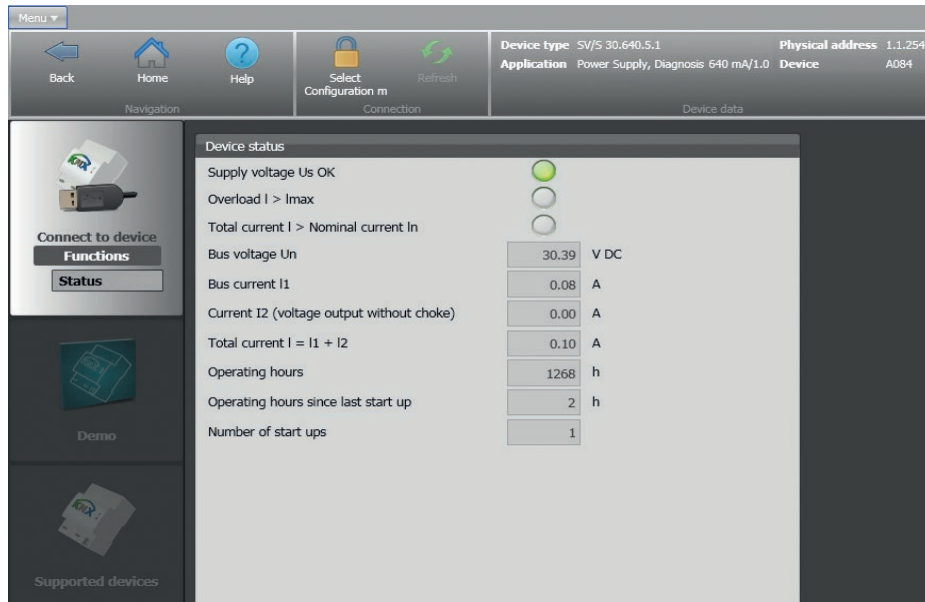
Expanded diagnostic and visualization possibilities can be realized via the ETS communication objects.

The following communication objects are available:

Communication objects	SV/S 30.320.2.1	SV/S 30.640.5.1
Bus voltage $U_N$	■	■
Bus current $I_1$	■	■
Bus current $I_1 >$ rated current $I_n$	0: $I_1 < 315$ mA 1: $I_1$ for longer than 10 s $> 320$ mA	–
Current $I_2$ auxiliary voltage output	–	■
Total current $I (= I_1 + I_2)$	–	■
Total current $I >$ rated current $I_n$	–	0: $I < 630$ mA 1: $I$ for longer than 10 s $> 640$ mA
Overload $I > I_{max}$	0 = no overload (LED $I > I_{max}$ is OFF): $I = < 475$ mA 1 = overload (LED $I > I_{max}$ is ON): $I = > 525$ mA	0 = no overload (LED $I > I_{max}$ is OFF): $I = < 855$ mA 1 = overload (LED $I > I_{max}$ is ON): $I = > 950$ mA
Trigger bus reset	■	■

## Analysis of device information with the ABB i-bus tool

The ABB i-bus tool permits detailed device analysis without ETS software – even remotely. The following items of status information are available here:



- Supply voltage OK
- Overload  $I > I_{max}$
- Total current  $I > \text{rated current } I_n$
- Bus voltage  $U_n$
- Bus current
- Current  $I_2$  (additional voltage output for SV/S 30.640.5.1)
- Total current  $I = I_1 + I_2$  (for SV/S 30.640.5.1)
- Operating hours
- Operating hours since last start up
- Number of start ups

Screenshot of ABB i-bus tool

## Ordering details



### Power Supply with diagnostics, 320 mA, MDRC

Compact Power Supply with integrated choke. Quick diagnostics by LED display and ETS communication objects. Analysis of the operating state and the bus line possible by means of ABB i-bus tool.

Designation	MW	Type	Order number	Pkg. unit	Weight
				1 pc.	1 pc.
				pc.	kg
320 mA	4	SV/S 30.320.2.1	2CDG 110 145 R0011	1	0.26



### Power Supply with diagnostics, 640 mA, MDRC

Compact Power Supply with integrated choke. Quick diagnostics by LED display and ETS communication objects. Analysis of the operating state and the bus line possible by means of ABB i-bus tool. Additional voltage output to supply an additional line in conjunction with an additional choke.

Designation	MW	Type	Order number	Pkg. unit	Weight
				1 pc.	1 pc.
				pc.	kg
640 mA	4	SV/S 30.640.5.1	2CDG 110 146 R0011	1	0.26

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