

Function (continued)**Software for TIA-based automation systems**

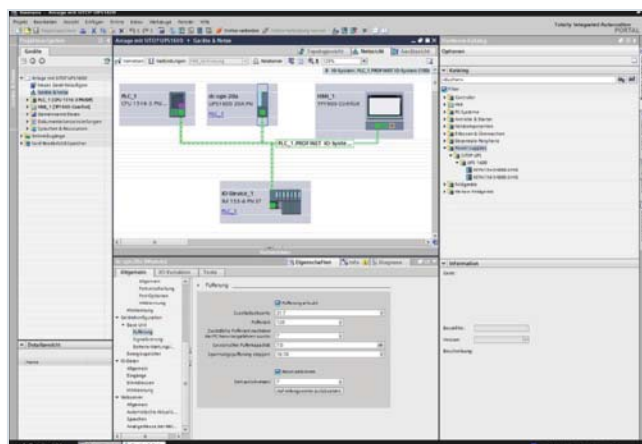
For convenient integration of the DC UPS in the TIA environment, different software modules are available.

Engineering is simple via the TIA Portal. The data for UPS1600 is stored in the hardware catalog version V13 and higher. Special function blocks for SIMATIC S7-300, S7-400, S7-1200 and S7-1500 also support integration in the STEP 7 user program.

The comprehensive diagnostics data of the UPS1600 power supply can be visualized using prepared UPS faceplates for WinCC.

TIA Portal

- Convenient and fail-safe integration of SITOP UPS1600 in the PROFINET network by means of drag-and-drop
- Convenient configuration of SITOP UPS1600 basic units with Ethernet/PROFINET and the UPS1100 battery module simply by selecting from the hardware catalog of the TIA Portal
- Free download of HSP (Hardware Support Package) for TIA Portal version V12 SP1 available at <http://support.automation.siemens.com/WW/view/en/75854606>
- Free download of GSD file (generic station description) for STEP 7 V 5.5 available from <http://support.automation.siemens.com/WW/view/en/75854605>



Establishing the PROFINET connection between the SITOP UPS1600 and the controller is easy and fail-safe in the TIA Portal

STEP 7 function blocks

Function blocks are available for STEP 7 user programs on SIMATIC S7-300/400/1200/1500 respectively. They allow further processing of the DC UPS operating data. Free download from: <http://support.automation.siemens.com/WW/view/en/75854608>

Faceplates for WinCC

Ready-to-use faceplates save programming time for visualization of the uninterruptible power supply. The faceplates show all relevant statuses and values of the DC UPS. They are available for the following systems:

- WinCC V7.2 + STEP 7 Professional 2010
- WinCC flexible 2008 SP3 + STEP 7 Professional 2010
- WinCC Comfort/Advanced/Professional V11 SP2 + STEP 7 Professional V11 SP2
- WinCC V12 + STEP 7 V12

Free download at:

<http://support.automation.siemens.com/WW/view/en/75854608>



The pre-compiled WinCC faceplates show all the relevant UPS data in a clearly comprehensible display. An icon with color coding for the operating status is also available

Technical specifications

Battery modules	UPS1100 24V, 1.2 Ah	SITOP UPS1100 24V, 3.2 Ah	SITOP UPS1100 24V, 7 Ah
For SITOP UPS1600	10 A	10 A	10 A and 20 A
Order No.	6EP4131-0GB00-0AY0	6EP4133-0GB00-0AY0	6EP4134-0GB00-0AY0
			
Recommended end of charge voltage (set automatically by SITOP UPS1600):	26.4...27.3 V DC (> +20 °C), 27.3...29.0 V DC (< +20 °C)	26.4...27.3 V DC (> +20 °C), 27.3...29.0 V DC (< +20 °C)	26.4...27.3 V DC (> +20 °C), 27.3...29.0 V DC (< +20 °C)
Charging current	max. 0.3 A	max. 0.8 A	max. 1.75 A
Rated output voltage	24 V DC, 22 ... 27.0 V DC (no load)	24 V DC, 22 ... 27.0 V DC (no load)	24 V DC, 22 ... 27.0 V DC (no load)
Rated output current	10 A	15 A	30 A
Integral battery fuse	15 A/32 V	15 A/32 V	30 A/32 V
Signaling	LED green: Battery OK, flashing green: Error or warning, OFF: No communication	LED green: Battery OK, flashing green: Error or warning, OFF: No communication	LED green: Battery OK, flashing green: Error or warning, OFF: No communication
Degree of protection (EN 60529)	IP00	IP00	IP00
Ambient temperature	-10...+50 °C	-10...+50 °C	-10...+50 °C
Transport/storage temperature	-40...+85 °C	-40...+85 °C	-40...+85 °C
Service life (when capacity falls to 50 % of original capacity), depending on battery temperature, approx.	+20 °C: 4 years, +30 °C: 2 years, +40 °C: 1 year, +50 °C: 0.5 years	+20 °C: 4 years, +30 °C: 2 years, +40 °C: 1 year, +50 °C: 0.5 years	+20 °C: 4 years, +30 °C: 2 years, +40 °C: 1 year, +50 °C: 0.5 years
Installation	Standard rail or wall mounting	Standard rail or wall mounting	Wall mounting
Dimensions (W x H x D) in mm	89 x 130 x 107	190 x 169 x 79.5	186 x 186 x 110.5
Weight, approx.	1.9 kg	3.8 kg	6.1 kg
Certification	CE, cULus, C-Tick; KCC; GL, ABS, ATEX	CE, cULus, C-Tick; KCC; GL, ABS, ATEX	CE, cULus, C-Tick; KCC; GL, ABS, ATEX

SITOP DC UPS uninterruptible power supplies

24 V DC

Ordering data and further information

Selection and ordering data

Product	Input Voltage $U_{in \text{ rated}}$	Output; energy Voltage $U_{out \text{ rated}}$	Current $I_{out \text{ rated}}$	Order No.	Price
SITOP UPS500S					
	24 V DC 24 V DC	24 V DC; 2.5 kW 24 V DC; 5 kW	15 A 15 A	6EP1933-2EC41 6EP1933-2EC51	
SITOP UPS501S					
	24 V DC	24 V DC; 5 kW	15 A	6EP1935-5PG01	
SITOP UPS500P					
	24 V DC 24 V DC	24 V DC; 5 kW 24 V DC; 10 kW	7 A 7 A	6EP1933-2NC01 6EP1933-2NC11	
Connector set					
	Connector set consisting of connector for input and output with pre-assembled USB cable (2 m long)			6EP1975-2ES00	
SITOP UPS1600					
	24 V DC	24 V DC;	10 A	6EP4134-3AB00-0AY0	
	24 V DC	24 V DC; with USB interface	10 A	6EP4134-3AB00-1AY0	
	24 V DC	24 V DC; with 2 Ethernet/ PROFINET interfaces	10 A	6EP4134-3AB00-2AY0	
	24 V DC	24 V DC;	20 A	6EP4136-3AB00-0AY0	
	24 V DC	24 V DC; with USB interface	20 A	6EP4136-3AB00-1AY0	
	24 V DC	24 V DC; with 2 Ethernet/ PROFINET interfaces	20 A	6EP4136-3AB00-2AY0	
SITOP UPS1100					
	24 V DC Capacity: 1.2 Ah		10 A	6EP4131-0GB00-0AY0	
	24 V DC Capacity: 3.2 Ah		10 A	6EP4133-0GB00-0AY0	
	24 V DC Capacity: 7 Ah		10 A and 20 A	6EP4134-0GB00-0AY0	