Stabilized Power Supplies SITOP 6EP Power Supplies

DC-UPS uninterruptible power supplies

Overview

To combat prolonged mains failures the 24 V SITOP power supply units can be upgraded into a DC-UPS uninterruptible power supply.

SITOP offers two systems for this purpose:

- Battery modules as energy stores which provide a buffer in the hours range
- Capacitors for 24 V buffering in the minutes range

The combination is used for example in machine-tool building, in the textile industry, on all types of production lines and filling plants, and in conjunction with 24 V industrial PCs. They prevent the negative consequences which often result from mains failures

For the SIMATIC IPC this means that all running applications, including the operating system, can be shut down under stabilized conditions.

The DC-UPS 24 V uninterruptible power supply with battery modules is comprised of DC-UPS modules with 6 A, 15 A or 40 A output current and the battery modules 1.2 Ah, 3.2 Ah, 7 Ah and 12 Ah (containing lead rechargeable batteries with corrosion-resistant lead-calcium high-performance grid plates and glass fiber fleece) and 2.5 Ah (containing "high-temperature rechargeable batteries" type Reinblei).

Selection and ordering data

Vers		Inputs Rated voltage Ue Rated	Output Rated voltage $U_{ m a\ Rated}$	Rated current I _{a Rated}	Dimensions (W × H × D)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
					mm						
DC	C UPS m	nodules									
6 A		24 V DC	24 V DC	6 A	50 × 125 × 125		6EP1 931-2DC21		1	1 unit	585
	th serial erface	` 2	(mains operation: 21.5 28.5 V, battery operation:		50 × 125 × 125	>	6EP1 931-2DC31		1	1 unit	585
With USB interface			27.0 18.5 V)		50 × 125 × 125	>	6EP1 931-2DC42		1	1 unit	585
15 /		24 V DC	24 V DC	15 A	$50 \times 125 \times 125$	>	6EP1 931-2EC21		1	1 unit	585
	th serial erface	(22 29 V)	(mains operation: 21.5 28.5 V, battery operation:		50 × 125 × 125	•	6EP1 931-2EC31		1	1 unit	585
With U			27.0 V 18.5 V)		50 × 125 × 125	>	6EP1 931-2EC42		1	1 unit	585
40 /	Α	24 V DC	24 V DC	40 A	102 x 125 x 125	>	6EP1 931-2FC21		1	1 unit	585
With USB interface		(22 29 V)	(mains operation: 21.5 28.5 V, battery operation: 27.0 18.5 V)		102 x 125 x 125	•	6EP1 931-2FC42		1	1 unit	585

Battery modules as energy stores

Dattery modules	o do onorgy	0.0.00								
	Version	Charging voltage at +25 °C U _{Charge}	Output Rated voltage <i>U</i> _{a Rated}	Dimensions (W × H × D)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		mm								
	Battery modules									
	For DC-U	PS modules 6 A								
1	1.2 Ah	27.0 V DC	24 V DC (end of charge voltage: 27.0 V, exhaustive discharge protection: 18.5 V)	96 × 106 × 108	3 ▶	6EP1 935-6MC01		1	1 unit	585
6EP1 935-6MC01	2.5 Ah/ high tem- perature recharge- able battery	27.7 V DC	24 V DC (end of charge voltage: 27.7 V, exhaustive discharge protection: 18.5 V)	265 × 151 × 91	•	6EP1 935-6MD31		1	1 unit	585
	3.2 Ah	27.0 V DC	24 V DC (end of charge voltage: 27.0 V, exhaustive discharge protection: 18.5 V)	190 × 151 × 82	2 ▶	6EP1 935-6MD11		1	1 unit	585
CED4 OOF CMEO4	For DC-UPS modules 6 A to 40 A									
6EP1 935-6ME21	7 Ah	27.0 V DC	24 V DC (end of charge	186 x 168 x 121	•	6EP1 935-6ME21		1	1 unit	585
	12 Ah	27.0 V DC	voltage: 27.0 V, exhaustive discharge protection: 18.5 V)	253 x 168 x 121	•	6EP1 935-6MF01		1	1 unit	585

For capacitors as energy stores see page 11/62.