SITOP UPS1600

Product Data Sheet

6EP4134-3AB00-2AY0

24 V 10 A DC UPS Module

RATED DC INPUT	PERMISSIBLE DC INPUT	BUFFER CUT-IN SETTING	RATED INPUT CURRENT
24 V	**21 to 29 V**	**21 to 25 V; 21.5 V preset**	**14 A with 3 A charging**

Siemens 6EP4134-3AB00-2AY0 is the SITOP UPS1600 24 V DC uninterruptible power supply module rated at 10 A and 240 W. It connects a DC supply and an appropriate battery module to maintain the load during an input interruption. The Ethernet/PROFINET version also provides the documented OPC UA and web-server functions.

01 TECHNICAL DATA

Rated DC input	24 V
Permissible DC input	21 to 29 V
Buffer cut-in setting	21 to 25 V; 21.5 V preset
Rated input current	14 A with 3 A charging
Rated output current	10 A
Peak output current	30 A
Rated output power	240 W
Buffer-mode output voltage	18.5 to 27 V DC
Normal-mode voltage drop	Approximately 0.2 V
Typical startup delay	60 ms

02 ADDITIONAL PRODUCT DATA

Battery charging current	0.1 A or 3 A, battery-dependent
Typical efficiency	97.3%
Typical rated-load loss	7 W
Rated signaling-contact load	60 V DC / 1 A or 30 V AC / 1 A
Network ports	2 Ethernet/PROFINET ports

03 PRODUCT FUNCTION

The input range is 21 to 29 V DC and the buffer cut-in threshold can be set from 21 to 25 V. Battery charging is selected automatically according to the connected battery module, with the sheet listing 0.1 A and 3 A charging values. Status LEDs, relay contacts and network information identify normal supply, buffering and battery readiness; available backup duration depends on the actual battery and load.

04 SYSTEM COMPATIBILITY

Wire the separate supply, load and battery terminals with the specified conductor sizes and polarity. The UPS1600 has dedicated status and control terminals in addition to its Ethernet/PROFINET connection. Apply the documented contact ratings when connecting external alarm circuits, keeping control wiring separate from the power path.

05 REFERENCE

Siemens 6EP4134-3AB00-2AY0 UPS1600 Data Sheet, 20 September 2024; local manufacturer PDF pages 1-4.

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