SITOP UPS1600

Product Data Sheet

6EP4134-3AB00-0AY0

DC uninterruptible power supply

RATED DC INPUT	INPUT VOLTAGE RANGE	RATED LOAD CURRENT	MAXIMUM CHARGING CURRENT
24 V DC	**21...29 V DC**	**10 A**	**3 A**

Siemens 6EP4134-3AB00-0AY0 is the 10 A SITOP UPS1600 DC uninterruptible power supply without a USB or PROFINET interface. It maintains a 24 V DC load from a compatible SITOP BAT1600 or UPS1100 battery module when the normal supply drops below the configured buffering threshold.

01 TECHNICAL DATA

Rated DC input	24 V DC
Input voltage range	21...29 V DC
Rated load current	10 A
Maximum charging current	3 A
Power Boost	30 A for 30 ms
Extra Power	15 A for 5 s/min; battery restrictions apply
Factory buffering threshold	21.5 V DC, +/-3%
Normal-mode voltage drop	Approximately 0.2 V
Buffered output voltage	28.8...18.5 V; battery-state dependent
Lead-battery deep-discharge cutoff	18.5 V

02 ADDITIONAL PRODUCT DATA

Typical efficiency	97.5%
Typical power loss	6 W
Startup delay	Less than 1 s
Terminal construction	Screw terminals
Mean time between failures	More than 320,000 h at 40 degrees C

03 PRODUCT FUNCTION

The unit accepts 21 to 29 V DC and supplies 10 A continuously, with 30 A Power Boost for 30 ms and 15 A Extra Power for 5 seconds per minute under the specified battery conditions. Battery charging is limited to 3 A, while local rotary switches and signal terminals provide buffer-time selection, threshold adjustment and operating-state indication.

04 SYSTEM COMPATIBILITY

Connect the 24 V feeder to IN+/IN-, the buffered load to OUT+/OUT-, and the approved battery assembly to BAT+/BAT-. Select conductor cross-sections for the load and charging current together, and connect the signal terminal block according to the noncommunicating 0AY0 diagram.

05 REFERENCE

Siemens SITOP UPS1600 / BAT1600 / UPS1100 Equipment Manual A5E37775406-11-76, July 2021

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