

OFFICIAL DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Siemens technical pages

SIEMENS LOGO!POWER

6EP3331-6SB00-0AY0

LOGO!POWER STABILIZED DC POWER SUPPLY

Selected official pages retain the original technical tables, ratings, notes and pagination.

OFFICIAL SOURCE

Siemens LOGO!Power manual A5E40912965-2-76, 01/2019

Original manual pages 56, 60, 72 and 75

This technical extract does not replace the complete equipment and system manuals. Check the installed hardware and project before use.

6.1 Input

	6EP3310-6SB00-0AY0 (5 V/3 A)	6EP3311-6SB00-0AY0 (5 V/6.3 A)	6EP3320-6SB00-0AY0 (12 V/0.9 A)	6EP3321-6SB00-0AY0 (12 V/1.9 A)	6EP3322-6SB00-0AY0 (12 V/4.5 A)	6EP3321-6SB10-0AY0 (15 V/1.9 A)
Built-in line-side fuse	Internal	Internal	Internal	Internal	Internal	Internal
Protection in the line feeder cable (IEC 898)	Recommended miniature circuit-breaker: Characteristic B from 6 A or characteristic C from 2 A	Recommended miniature circuit-breaker: Characteristic B from 10 A or characteristic C from 6 A	Recommended miniature circuit-breaker: Characteristic B from 6 A or characteristic C from 2 A	Recommended miniature circuit-breaker: Characteristic B from 6 A or characteristic C from 2 A	Recommended miniature circuit-breaker: Characteristic B from 10 A or characteristic C from 6 A	Recommended miniature circuit-breaker: Characteristic B from 6 A or characteristic C from 2 A

	6EP3322-6SB10-0AY0 (15 V/4 A)	6EP3330-6SB00-0AY0 (24 V/0.6 A)	6EP3331-6SB00-0AY0 (24 V/1.3 A)	6EP3332-6SB00-0AY0 (24 V/2.5 A)	6EP3333-6SB00-0AY0 (24 V/4 A)
Input	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC
Rated voltage $U_{in \text{ rated}}$ for AC	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V
Voltage range for AC	85 - 264 V	85 - 264 V	85 - 264 V	85 - 264 V	85 - 264 V
Input voltage for DC	110 - 300 V	110 - 300 V	110 - 300 V	110 - 300 V	110 - 300 V
Wide-range input	Yes	Yes	Yes	Yes	Yes
Overvoltage resistance	300 V AC for 1 s	300 V AC for 1 s	300 V AC for 1 s	300 V AC for 1 s	300 V AC for 1 s
Power failure buffering at $I_{out \text{ rated}}$ and $U_{in} = 187 \text{ V}$: min.	40 ms	40 ms	40 ms	40 ms	40 ms
Rated line frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Line frequency range	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz
Input current at $U_{in \text{ rated}}$ 120 V	1.10 A	0.25 A	0.56 A	1.08 A	1.70 A
Input current at $U_{in \text{ rated}}$ 230 V	0.70 A	0.16 A	0.37 A	0.70 A	1.00 A
Inrush current limiting (25 °C), max.	50 A	20 A	25 A	50 A	30 A
I^2t , max.	3 A²s	0.5 A²s	0.8 A²s	3.3 A²s	2.5 A²s

6.2 Output

	6EP3322-6SB10-0AY0 (15 V/4 A)	6EP3330-6SB00-0AY0 (24 V/0.6 A)	6EP3331-6SB00-0AY0 (24 V/1.3 A)	6EP3332-6SB00-0AY0 (24 V/2.5 A)	6EP3333-6SB00-0AY0 (24 V/4 A)
Spikes peak-peak, typ. (bandwidth, approx. 20 MHz)	50 mV	50 mV	50 mV	50 mV	50 mV
Setting range	10.5 - 16.1 V	-	22.2 - 26.4 V	22.2 - 26.4 V	22.2 - 26.4 V
Output voltage can be adjusted	Yes	No	Yes	Yes	Yes
Output voltage setting	Using a potentiometer	-	Using a potentiometer	Using a potentiometer	Using a potentiometer
Status display	Green LED for output voltage OK				
Response when switching on/off	No overshoot of U_{out} (soft start)				
Starting delay, max.	0.5 s	0.5 s	0.5 s	0.5 s	0.5 s
Voltage rise, typ.	100 ms	100 ms	100 ms	100 ms	100 ms
Rated current $I_{out rated}$	4 A	0.6 A	1.3 A	2.5 A	4 A
Overload capability for typ. 200 ms	6 A	0.9 A	2.0 A	3.8 A	6 A
Current range	0 - 4 A	0 - 0.6 A	0 - 1.3 A	0 - 2.5 A	0 - 4 A
• Remark	55 ... 70 °C: Derating 2 %/K	55 ... 70 °C: Derating 2 %/K	55 ... 70 °C: Derating 2 %/K	55 ... 70 °C: Derating 2 %/K	55 ... 70 °C: Derating 2 %/K
Active power output, typ.	60 W	14.4 W	31.2 W	60 W	96 W
Can be connected in parallel to increase the power rating	Yes	No	Yes	Yes	Yes
Number of devices that can be connected in parallel, quantity	2	-	2	2	2
Output characteristic	see Figure 6-3 Output characteristic (Page 61)	see Figure 6-5 Output characteristic (24 V/0.6 A) (Page 62)	see Figure 6-3 Output characteristic (Page 61)		

6.7 Mechanical system

	6EP3320-6SB00-0AY0 (12 V/0.9 A)	6EP3310-6SB00-0AY0 (5 V/3 A)	6EP3311-6SB00-0AY0 (5 V/6.3 A)	6EP3333-6SB00-0AY0 (24 V/4 A)
	6EP3330-6SB00-0AY0 (24 V/0.6 A)	6EP3321-6SB00-0AY0 (12 V/1.9 A)	6EP3322-6SB00-0AY0 (12 V/4.5 A)	
		6EP3321-6SB10-0AY0 (15 V/1.9 A)	6EP3322-6SB10-0AY0 (15 V/4 A)	
		6EP3331-6SB00-0AY0 (24 V/1.3 A)	6EP3332-6SB00-0AY0 (24 V/2.5 A)	
Connection system	screw-type terminal			
Connections: Line input	L, N: 1 screw terminal each for 0.14 - 2.5 mm ² solid/finely stranded			
Connections: Output	+, -: 1 screw terminal each for 0.14 - 2.5 mm ²			
Width of the housing	18 mm	36 mm	54 mm	72 mm
Height of the housing	90 mm	90 mm	90 mm	90 mm
Depth of the housing	53 mm	53 mm	53 mm	53 mm
Installation width	18 mm	36 mm	54 mm	72 mm
Mounting height	130 mm	130 mm	130 mm	130 mm
Weight, approx.	0.07 kg	0.12 kg	0.2 kg	0.29 kg
Product feature of the housing: housings can be lined up next to one another	Yes			
Type of mounting: Wall/panel mounting	Yes			
Type of mounting: Rail mounting	Yes			
Type of mounting: S7-300 rail mounting	No			
Mounting	Can be snapped onto standard EN 60715 35×7,5/15 mounting rails			

Safety, approvals, EMC

7.1 Safety

	6EP3310-6SB00-0AY0 (5 V/3 A)	6EP3322-6SB10-0AY0 (15 V/4 A)
	6EP3311-6SB00-0AY0 (5 V/6.3 A)	6EP3330-6SB00-0AY0 (24 V/0.6 A)
	6EP3320-6SB00-0AY0 (12 V/0.9 A)	6EP3331-6SB00-0AY0 (24 V/1.3 A)
	6EP3321-6SB00-0AY0 (12 V/1.9 A)	6EP3332-6SB00-0AY0 (24 V/2.5 A)
	6EP3322-6SB00-0AY0 (12 V/4.5 A)	6EP3333-6SB00-0AY0 (24 V/4 A)
	6EP3321-6SB10-0AY0 (15 V/1.9 A)	
Primary/secondary galvanic isolation	Yes	
Electrical isolation	SELV output voltage U_{out} acc. to EN 60950-1 and EN 50178	
Protection class	Class II (without protective conductor)	
Degree of protection (EN 60529)	IP20	
Test voltage	See Section Test voltage (Page 76)	