## **SIEMENS**

Data sheet 6EP1336-3BA00



SITOP MODULAR 24 V/20 A SITOP MODULAR 20 STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/20 A

nput		
Input	1-phase AC	
Supply voltage		
• 1 with AC Rated value	120 V	
• 2 with AC Rated value	230 V	
• Note	Set by means of wire jumper on the device; starting from Vin > 93/183 V	
Input voltage		
• 1 with AC	85 132 V	
• 2 with AC	176 264 V	
Wide-range input	No	
Overvoltage resistance	2.3 × Vin rated, 1.3 ms	
Mains buffering at lout rated, min.	20 ms; at Vin = 230 V	
Rated line frequency	50 60 Hz	
Rated line range	47 63 Hz	
Input current		
<ul> <li>at rated input voltage 120 V</li> </ul>	7.7 A	
<ul> <li>at rated input voltage 230 V</li> </ul>	3.5 A	
Switch-on current limiting (+25 °C), max.	60 A	
l²t, max.	9.9 A²-s	
Built-in incoming fuse	Yes	
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker at 1-phase operation: 10 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 V)	

Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	100 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	60 mV
Adjustment range	24 28.8 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	via signaling module (6EP1961-3BA10)
On/off behavior	Overshoot of Vout approx. 3 %
Startup delay, max.	0.1 s
Voltage rise, typ.	50 ms
Rated current value lout rated	20 A
Current range	0 20 A
• Note	+60 +70 °C: Derating 3.5%/K
Active power supplied typical	480 W
Short-term overload current	
<ul> <li>at short-circuit during operation typical</li> </ul>	60 A
Duration of overloading capability for excess current	
at short-circuit during operation	25 ms
Constant overload current	
on short-circuiting during the start-up typical	23 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency Efficiency at Vout rated, lout rated, approx.	89 %
Power loss at Vout rated, lout rated, approx.	59 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	1 %
max.	0.07
Dynamic load smoothing (lout: 50/100/50 %), Uout ±	2 %
typ.  Load step setting time 50 to 100%, typ.	2 ms
Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.	2 ms
Setting time maximum	5 ms

Protection and monitoring	< 35 V
Output overvoltage protection	
Current limitation, typ.	23 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 23 A or latching shutdown
Enduring short circuit current RMS value	
● typical	23 A
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	0.4 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
FM approval	-
CB approval	No
Marine approval	GL, ABS
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature	
<ul><li>during operation</li></ul>	0 70 °C
— Note	with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics	
Connection technology	screw-type terminals
Connections	

• Supply input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
<ul><li>Output</li></ul>	+, -: 2 screw terminals each for 0.5 4 mm²
<ul><li>Auxiliary</li></ul>	
Width of the enclosure	160 mm
Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Weight, approx.	2.2 kg
Product property of the enclosure housing for side- by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module, signaling module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)