SITOP PSU8200 24 V/20 A SITOP PSU2600 24 V/20 A Stabilized power supply input: 3 AC 400-500 V output: 24 V DC/20 A



Input	
Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	340 575 V
Wide-range input	Yes
Mains buffering at lout rated, min.	15 ms; at Vin = 400 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
Input current	
<ul> <li>at rated input voltage 400 V</li> </ul>	1.2 A
• at rated input voltage 500 V	1 A
Switch-on current limiting (+25 °C), max.	16 A
I²t, max.	0.8 A <sup>2</sup> ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A), 3RV2021-1HA (setting 8 A) or 3RV2711-1DD10 (UL 489)

Output

Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	2 %
Static mains compensation, approx.	1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Adjustment range	24 28.8 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 480 W
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	2.5 s
Voltage increase time of the output voltage maximum	500 ms
Rated current value lout rated	20 A
Current range	0 20 A
• Note	+60 °C
Supplied active power 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	
<ul> <li>at short-circuit during operation</li> </ul>	25 ms
Constant overload current	
• on short-circuiting during the start-up typical	23 A
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
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Efficiency	00.07
Efficiency at Vout rated, lout rated, approx.	93 %
Power loss at Vout rated, lout rated, approx.	36 W
Power loss [W] during no-load operation maximum	4 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	0.1 %
max.	
Dynamic load smoothing (lout: 50/100/50 %), Uout ±	2 %
typ.	0.2 mg
Load step setting time 50 to 100%, typ.	0.2 ms
Load step setting time 100 to 50%, typ.	0.2 ms
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	0.2 ms
Load step setting time 90 to 10%, typ.	0.2 ms
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Setting time maximum	10 ms
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Protection and monitoring  Output overvoltage protection	< 32 V
Current limitation, typ.	23 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Constant current characteristic approx. 23 A
Enduring short circuit current RMS value	Constant current characteristic approx. 23 A
-	23 A
• typical	23 A
Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
Leakage current	
• maximum	3.5 mA
● typical	1.7 mA
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	No
FM approval	-
CB approval	Yes
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
0	
Operating data Ambient temperature	
·	0 60 °C
during operation	
— 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	
<ul><li>Supply input</li></ul>	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.2 4 mm²
<ul> <li>Auxiliary</li> </ul>	Signal and remote: 1 screw terminal each for 0.14 1.5 mm²
Width of the enclosure	90 mm
Height of the enclosure	125 mm

Depth of the enclosure	125 mm
Required spacing	
<ul> <li>top</li> </ul>	50 mm
• bottom	50 mm
● left	0 mm
• right	0 mm
Weight, approx.	1.3 kg
Product feature of the enclosure housing for side-by- side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)