SIEMENS

Data sheet

6EP3446-7SB00-3AX0



SITOP PSU6200/3AC/DC48V/10A

SITOP PSU6200 48 V/10 A stabilized power supply input: 400 - 500 V AC output: 48 V DC/10 A with diagnostic interface

Input	
Input	3-phase AC or DC
Rated voltage value Vin rated	400 500 V
Voltage range AC	323 576 V
input voltage	
• at DC	450 600 V
Mains buffering	at Vin = 400 V
Mains buffering at lout rated, min.	25 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	
 at rated input voltage 400 V 	0.77 A
 at rated input voltage 500 V 	0.62 A
Switch-on current limiting (+25 °C), max.	17 A
Protection in the mains power input (IEC 898)	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
Output	Controlled, isolated DC voltage
number of outputs	1
Rated voltage Vout DC	48 V
 output voltage at output 1 at DC rated value 	48 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.3 %
Static load balancing, approx.	0.3 %
Residual ripple peak-peak, max.	40 mV
Residual ripple peak-peak, typ.	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	30 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
Adjustment range	48 56 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 480 W (576 W up to 45°C)
Status display	Green LED for 48 V OK
Signaling	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface
On/off behavior	Overshoot of Vout < 2 %
Startup delay, max.	0.5 s

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Voltage rise, typ.	200 ms
Rated current value lout rated	10 A
Current range	0 10 A
Note	12 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current	
 on short-circuiting during the start-up typical 	15 A
 at short-circuit during operation typical 	15 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	96.2 %
Power loss at Vout rated, lout rated, approx.	
power loss [W] during no-load operation maximum	3 W
Closed-loop control	
	0.0/
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3%
Load step setting time 10 to 90%, typ.	5 ms
Load step setting time 90 to 10%, typ.	5 ms
setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 60 V
Current limitation, typ.	15 A
property of the output short-circuit proof	Yes
Short-circuit protection	Shutdown and periodic restart attempts
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
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
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Vee
	Yes cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
UL/cUL (CSA) approval	(CSA C22.2 No. 62368-1, UL 62368-1)
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
certificate of suitability EAC approval	Yes
Regulatory Compliance Mark (RCM)	No
Marine approval	in process: DNV GL, ABS
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-30 +70 °C
- Note	with natural convection a monotonically increasing start-up from -25 °C,
	safe start-up from -40 °C
 during transport 	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
Connection technology	Push-in terminals

Connections	-
Supply input	L1, L2, L3, PE: PushIn for 0.5 10 mm ²
Output	+1, +2, -1, -2, -3: PushIn for 0.5 6 mm ²
Auxiliary	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm ²
width of the enclosure	70 mm
height of the enclosure	135 mm
depth of the enclosure	155 mm
required spacing	
• top	45 mm
bottom	45 mm
• left	0 mm
• right	0 mm
Weight, approx.	1.5 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Redundancy module
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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