6EP3344-7SB00-3AX0

Data sheet



SITOP PSU6200/1AC/48VDC/5A

SITOP PSU6200 5 A stabilized power supply input: 120/230 V AC (110-240 V DC) output: 48 V DC/5 A with diagnostic interface

Input	Input	
Voltage range AC 85 264 V supply voltage 110 240 V e at DC 110 240 V input voltage 8 • at DC 85 275 V Wide-range input Yes Overvoltage resistance 300 V AC for 30 s Mains buffering at Vin = 230 V Mains buffering at lout rated, min. 46 ms; at Vin = 230 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 120 V 2.2 A • at rated input voltage 230 V 1.2 A Switch-on current limiting (+25 °C), max. 6 A Built-in incoming fuse 5 A Protection in the mains power input (IEC 898) Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 488) 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 • output voltage at output at	Input	1-phase AC or DC
supply voltage	Rated voltage value Vin rated	120 240 V
	Voltage range AC	85 264 V
input voltage	supply voltage	
● at DC 85 275 V Wide-range input Yes Overvoltage resistance 300 V AC for 30 s Mains buffering at Vin = 230 V Mains buffering at lout rated, min. 46 ms; at Vin = 230 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 120 V • at rated input voltage 230 V 1.2 A Switch-on current limiting (+25 °C), max. 6 A Built-in incoming fuse 5 A Protection in the mains power input (IEC 898) Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) 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 • output voltage at output 1 at DC rated value 48 V • Static load balancing, approx. 0.1 % Static load balancing, approx. 0.1 % Static load balancing, approx. 0.1 % <	• at DC	110 240 V
Wide-range input Yes Overvoltage resistance 300 V AC for 30 s Mains buffering at Vin = 230 V Mains buffering at lout rated, min. 46 ms; at Vin = 230 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 230 V 1.2 A Switch-on current limiting (+25 °C), max. 6 A Built-in incoming fuse 5 A Protection in the mains power input (IEC 898) Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) Output Controlled, isolated DC voltage number of outputs 1 Rated voltage Yout DC 48 V • output voltage at output 1 at DC rated value 48 V • output voltage at output 1 at DC rated value 48 V Static mains compensation, approx. 0.1 % Static load balancing, approx. 0.1 % Static load balancing, approx. 50 mV Residual ripple peak-peak, max. 50 mV Spikes peak-peak, max. (bandwidt	input voltage	
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Rated line frequency 1 Rated line frequency 2 Rated line frequency 2 Rated line range input current • at rated input voltage 120 V • at rated input voltage 230 V 1.2 A Switch-on current limiting (+25 °C), max. Built-in incoming fuse Protection in the mains power input (IEC 898) Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) Cutput Output Controlled, isolated DC voltage number of outputs 1 Rated voltage Vout DC 48 V • output voltage at output 1 at DC rated value Total tolerance, static ± 3 % Static mains compensation, approx. 0.1 % Static load balancing, approx. Residual ripple peak-peak, max. Spikes peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range 48 56 V product function output voltage adjustable Yes	Mains buffering	at Vin = 230 V
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Rated line range input current • at rated input voltage 120 V • at rated input voltage 230 V 1.2 A Switch-on current limiting (+25 °C), max. 6 A Built-in incoming fuse Protection in the mains power input (IEC 898) Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) Output 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 Total tolerance, static ± 3 % Static mains compensation, approx. Static load balancing, approx. Output pole peak-peak, max. So mV Residual ripple peak-peak, max. So mV Residual ripple peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range 48 56 V product function output voltage adjustable Yes	Rated line frequency 1	50 Hz
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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. 0.1 % Static load balancing, approx. 0.1 % Residual ripple peak-peak, max. 50 mV Residual ripple peak-peak, typ. 30 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 60 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 40 mV Adjustment range 48 56 V product function output voltage adjustable Yes	Built-in incoming fuse	5 A
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. 0.1 % Static load balancing, approx. 0.1 % Residual ripple peak-peak, max. 50 mV Residual ripple peak-peak, typ. 30 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 60 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 40 mV Adjustment range 48 56 V product function output voltage adjustable Yes	Protection in the mains power input (IEC 898)	characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or
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Residual ripple peak-peak, typ. Spikes peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range 48 56 V product function output voltage adjustable Yes	Static load balancing, approx.	0.1 %
Spikes peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range 48 56 V product function output voltage adjustable Yes	Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range 40 mV 48 56 V product function output voltage adjustable Yes	Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range 40 mV 48 56 V product function output voltage adjustable Yes	Spikes peak-peak, max. (bandwidth: 20 MHz)	60 mV
product function output voltage adjustable Yes		40 mV
	Adjustment range	48 56 V
Output voltage setting via potentiometer; max. 240 W (288 W up to 45°C)	product function output voltage adjustable	Yes
	Output voltage setting	via potentiometer; max. 240 W (288 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
Olgitaling	O.K. or diagnostic interface
On/off behavior	Overshoot of Vout < 2 %
Startup delay, max.	0.5 s
Voltage rise, typ.	250 ms
Rated current value lout rated	5 A
Current range	0 5 A
Note	6 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	240 W
short-term overload current	
 on short-circuiting during the start-up typical 	6 A
at short-circuit during operation typical	6 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.	93.9 %
Power loss at Vout rated, lout rated, approx.	15 W
power loss [W] during no-load operation maximum	2.4 W
Closed-loop control	
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	1 %
Load step setting time 10 to 90%, typ.	4 ms
Load step setting time 90 to 10%, typ.	4 ms
setting time maximum	6 ms
Protection and monitoring	
Output overvoltage protection	< 60 V
Current limitation, typ.	6 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	Overload supusinty 100 % four fated up to 0 smill
Primary/secondary isolation	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
	CidSS I
leakage current • maximum	3.5 mA
Degree of protection (EN 60529)	IP20
	IF 20
Approvals	Vac
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	- V
CB approval	Yes
certificate of suitability EAC approval	Yes
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,
a during transport	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/N/-, PE:PushIn for 0.5 4 mm² single-core/finely stranded
 Output 	+1, +2, -1, -2, -3: PushIn for 0.5 2.5 mm²
Auxiliary	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm ²
width of the enclosure	45 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
• top	45 mm
• bottom	45 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.9 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

