

SIMATIC S7-300 STABILIZED POWER SUPPLY PS307 INPUT: 120/230 V AC OUTPUT: DC 24 V DC/10 A

Technical specifications	
Product	PS 307
Power supply, type	24 V/10 A
Input	
Input	1-phase AC
Supply voltage / 1 / with AC / Rated value	120 V
Supply voltage / 2 / with AC / Rated value	230 V
Supply voltage	
Note	Automatic range selection
Input voltage / 1 / with AC	85 132 V
Input voltage / 2 / with AC	170 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms
Mains buffering	at Vin = 93/187 V
Rated line frequency	50 / 60 Hz
Rated line range	47 63 Hz
Input current / at rated input voltage 120 V	4.2 A
Input current / at rated input voltage 230 V	1.9 A
Switch-on current limiting (+25 °C), max.	55 A
Duration of inrush current limiting / at 25 °C / maximum	3 ms

Pr. max. 3.3 A®-6 Bull-in incoming fuse T 6.3 AZBOV (not accessible) Protection in the mains power input (IEC 898) T 6.3 AZBOV (not accessible) Cutput Controlled, isolated DC voltage Rated voltage Vour DC 24 V Total tolerance, static ± 3% Static mains compensation, approx. 0.5 % Residual ripple peak-peak, max. 60 mV Residual ripple peak-peak, max. 60 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 15 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 60 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 60 mV Output voltage setting - Status display Green LED for 24 V OK Output voltage setting 9 Status display 10 ms No overshoot of Vout (soft start) 10 ms Rated ourner value four rated 10 ms Cutrent range 0 10 A Active power supplied / typical 38 A Short-term overload current / on short-circuit during operation / typical 38 A Duration of overloading capability for excess current / at short-circuit during o		
Protection in the mains power input (IEC 888) Recommended miniature circuit breaker: from 10 A characteristic C Output Controlled, isolated DC voltage Rated voltage Vout DC 3 % Total folerance, stalic ± 3 % Static mains compensation, approx. 0.1 % Residual ripple peak-peak, max. 50 mV Residual ripple peak-peak, max. 50 mV Residual ripple peak-peak, typ. 15 mV Splikes peak-peak, typ. (bandwidth: 20 MHz) 150 mV Splikes peak-peak, typ. (bandwidth: 20 MHz) 60 mV Product function / Output voltage adjustable No Output voltage setting - Status dalplay Green LED for 24 V OK On/off behavior No overshoot of Vout (soft start) Status dalplay 10 ms Rated current value lout rated 10 ns Current range 0 10 A Active power supplied / typical 38 A Duration of overloading capability for excess current / on short-circuit during operation / typical 38 A Duration of overloading capability for excess current / at short-circuit during operation / typical 30 ms Parallel	I²t, max.	3.3 A ² ·s
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Product function / Output voltage adjustable Output voltage setting - Status display Green LED for 24 V OK On/off behavior No overshoot of Vout (soft start) Startup delay, max. 2 s Voltage rise, typ. 10 ms Rated current value lout rated 10 A Current range 0 10 A Active power supplied / typical Short-term overload current / on short-circuiting during the start-up / typical Ouration of overloading capability for excess current / on short-circuiting during the start-up / typical Short-term overload current / at short-circuit during operation / typical Short-term overload current / at short-circuit during operation / typical Ouration of overloading capability for excess current / at short-circuit during operation / typical Short-term overload current / at short-circuit during operation / typical Short-term overload current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation Parallel switching for enhanced performance Yes Efficiency Efficiency Efficiency Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0,1 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. 2 % Setting time / maximum Protection and monitoring Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Spikes peak-peak, max. (bandwidth: 20 MHz)	150 mV
Output voltage setting Status display Green LED for 24 V OK On/off behavior No overshoot of Vout (soft start) Startup delay, max. 2 s Voltage rise, typ. 10 ms Rated current value lout rated 10 A Current range 0 10 A Active power supplied / typical Short-term overload current / on short-circuiting during the start-up / typical Ouration of overloading capability for excess current / on short-circuiting during the start-up / typical Short-term overload current / at short-circuit during operation / typical Short-term overloading capability for excess current / on short-dircuiting during the start-up / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overload current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circ	Spikes peak-peak, typ. (bandwidth: 20 MHz)	60 mV
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Rated current value lout rated Current range 0 10 A Active power supplied / typical Short-term overload current / on short-circuiting during the start-up / typical Duration of overloading capability for excess current / on short-circuiting during the start-up Short-term overload current / at short-circuit during operation / typical Short-term overload current / at short-circuit during operation / typical Short-term overloading capability for excess current / at short-circuit during operation of overloading capability for excess current / at short-circuit during operation Parallel switching for enhanced performance Yes Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. 90 % Power loss at Vout rated, lout rated, approx. 27 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.1 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time / maximum 0.1 ms Protection and monitoring Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Startup delay, max.	2 s
Current range 0 10 A Active power supplied / typical 240 W Short-term overload current / on short-circuiting during the start-up / typical Duration of overloading capability for excess current / on short-circuiting during the start-up / typical 80 ms Short-term overload current / at short-circuit during operation / typical 38 A Duration of overloading capability for excess current / at short-circuit during operation of overloading capability for excess current / at short-circuit during operation of overloading capability for excess current / at short-circuit during operation Parallel switching for enhanced performance Yes Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. 90 % Power loss at Vout rated, lout rated, approx. 27 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.1 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. 2 % Setting time / maximum 0.1 ms Protection and monitoring Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Voltage rise, typ.	10 ms
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Setting time / maximum 0.1 ms Protection and monitoring Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Protection and monitoring Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	2 %
Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Setting time / maximum	0.1 ms
	Protection and monitoring	
Current limitation 11 12 A	Output overvoltage protection	Additional control loop, shutdown at < 28.8 V, automatic restart
	Current limitation	11 12 A

Property of the output / Short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current / RMS value / maximum	12 A
Overload/short-circuit indicator	-
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
Leakage current / typical	0.6 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
Explosion protection	ATEX (EX) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455
FM approval	Class I, Div. 2, Group ABCD, T4
CB approval	No
Marine approval	In S7-300 system
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 / during operation	0 60 °C
• Note	with natural convection
Ambient temperature / during transport	-40 +85 °C
Ambient temperature / 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 0.5 2.5 mm² single-core/finely stranded
Connections / Output	L+, M: 4 screw terminals each for 0.5 2.5 mm ²
Connections / Auxiliary	-
Width / of the enclosure	80 mm
Height / of the enclosure	125 mm
Depth / of the enclosure	120 mm
Installation width	80 mm

Mounting height	205 mm
Weight, approx.	0.8 kg
Product property / of the enclosure / housing for side-by-side mounting	Yes
Mounting type / wall mounting	No
Mounting type / Standard rail mounting	No
Mounting type / S7 rail mounting	Yes
Installation	Can be mounted onto S7 rail
Mechanical accessories	Mounting adapter for standard mounting rail (6EP1971-1BA00)
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung:

Oct 10, 2014