Product data sheet

6ES7307-1EA01-0AA0



SIMATIC S7-300 STABILIZED POWER SUPPLY PS307 INPUT: 120/230 V AC OUTPUT: DC 24 V DC/5 A

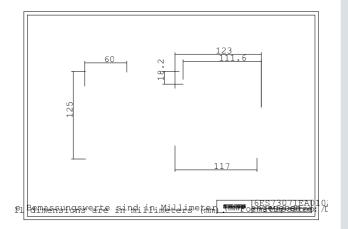
Technical specifications		
Product	PS 307	
Power supply, type	24 V/5 A	
Input		
Input	1-phase AC	
Supply voltage / 1 / at AC / nominal value	120 V	
Supply voltage / 2 / at AC / nominal value	230 V	
Voltage range		
• Note	Automatic range selection	
Input voltage / 1 / at AC	85 132 V	
Input voltage / 2 / at 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 nominal level of the input voltage 120 V	2.3 A	
Input current / at nominal level of the input voltage 230 V	1.2 A	
Switch-on current limiting (+25 °C), max.	20 A	
Duration of current limiting / at 25 °C / maximum	3 ms	

I²t, max.	1.2 A²-s
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A, characteristic C
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.	0.5 %
Residual ripple peak-peak, max.	50 mV
Residual ripple peak-peak, typ.	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	150 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
Product feature / output voltage adjustable	No
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	5 A
Current range	0 5 A
delivered active power / typ.	120 W
short-term overload current / at short-circuit during run-up / typical	20 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	100 ms
short-term overload current / at short-circuit during operation / typical	20 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	100 ms
Parallel switching for enhanced performance	Yes
Efficiency	
Efficiency at Vout rated, lout rated, approx.	87 %
Power loss at Vout rated, lout rated, approx.	18 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %
Load aton potting time E0 to 1000/, tup	0.3 ms
Load step setting time 50 to 100%, typ.	0.5 1115
Load step setting time 30 to 50%, typ.	0.3 ms
Load step setting time 100 to 50%, typ.	

Short-circuit protection Electronic shutdown, automatic restant Enduring short circuit current / Effective level / maximum 7 A Safety Primary/secondary isolation Yes Potretial separation Class I Privatedion class Class I stray current / maximum 3.5 mA stray current / typical 0.5 mA CE mark Yes UL/CSA approval CULCSA approval UL/CSA approval CULCSA approval CULCSA approval Explosion protection ATEX (EX) IL/3 GE vn A II T4, UL 1604 Class I. Div. 2, Group ABCD. Explosion protection A TEX (EX) IL/3 GE vn A II T4, UL 1604 Class I. Div. 2, Group ABCD. CB approval No Marine approval In S7-300 system Degree of protection (EN 60529) IP20 ENCE Entertitied interference EN 85022 Class B Supply harmonics limitation EN 85022 Class B Supply harmonics limitation EN 61000-9-2 No On 80 °C Visional muminity Cultimate class SIG3, no condensation Marcian temperature / in torasport <th< th=""><th>Characteristic feature of the output / short-circuit protected</th><th>Yes</th></th<>	Characteristic feature of the output / short-circuit protected	Yes
Safety Primary/secondary isolation Yes Potential separation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Protection class Class I stray current / maximum 3.5 mA stray current / Mybical 0.5 mA CE mark Yes UL/CSA approval Ves UL/CSA approval cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289, UL 1604 Class I, Div. 2 Group A, B, C, D, File E330455 Explosion protection ATEX (EX) II 3G Ex nal IT4; UL 1604 Class I, Div. 2, Group ABCD. PM approval Class I, Div. 2, Group ABCD, T4 CB approval No Marrine approval In S7-300 system Degree of protection (EN 60529) IP20 Emitted interference Supply harmonics limitation EN 50022 Class B Supply harmonics limitation EN 61000-3-2 Note inmunity EN 61000-6-2 Deparating data Ambient temperature / in operation 0 60 °C Note with natural convection Ambient temperature / in storage 40 485 °C Ambient temperature	Short-circuit protection	Electronic shutdown, automatic restart
Primary/secondary isolation Yes Potential separation Safety extra-low output voltage Uout acc. to EN 80980-1 and EN 80178 Protection class Class I stray current / maximum 3.5 mA stray current / typical 0.5 mA CE mark Yes UL/CSA approval Yes UL/CSA approval Yes UL/CUL (CSA) approval ATEX (EX) II 3G Ex nA II T4; UL 1804 Class I. Div. 2, Group ABCD. FM approval Class I. Div. 2, Group ABCD. T4 CB approval No Marine approval In 37-300 system Degree of protection (EN 60529) IP20 EMC EMISSION (EN 60529) Upon a title dinterference EN 55022 Class B Supply harmonics limitation EN 61000-3-2 Noise immunity EN 61000-6-2 Operating data Ambient temperature / in operation 0 60 °C Ambient temperature / in operation 40 485 °C Ambient temperature / in storage 40 485 °C Humidry class according to EN 60721 Climate class 3K3, no condensation </td <td>Enduring short circuit current / Effective level / maximum</td> <td>7 A</td>	Enduring short circuit current / Effective level / maximum	7 A
Potential separation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Protection class Class I Stray current / maximum stray current / typical 0.5 mA CE mark Ves UL/CSA approval Ves UL/CSA approval Ves UL/CUL (CSA) approval Class I Div. 2 Group A, B, C, D, File E130455 Explosion protection ATEX (EX) II 3G Ex nA II T4; UL 1604 Class I, Div. 2, Group ABCD FM approval Class I Div. 2 Group A, B, C, D, File E330455 Explosion protection ATEX (EX) II 3G Ex nA II T4; UL 1604 Class I, Div. 2, Group ABCD FM approval Class I, Div. 2, Group ABCD, T4 CB approval No Marine approval In 57-300 system Degree of protection (EN 60529) IP20 Emitted interference EN 55022 Class B Supply harmonics limitation EN 61000-6-2 Departing data Ambient temperature / in operation Note With natural convection Ambient temperature / in storage Ambient temperature / in storage 4-0 +85 °C Ambient temparature / in storage Humidiy class according to EN 60721 Connections / Supply input Connections / Supply input L, N, PE: 1 screw terminals each for 0.5 2.5 mm² single-core/linely stranded Connections / Output L+, M: 3 screw terminals each for 0.5 2.5 mm² single-core/linely stranded Connections / Output Connections / Auxiliary Width / of the housing Depth / of the housing	Safety	
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UL/CSA approval Yes UL/cUL (CSA) approval cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289, UL 1804 Class I Div. 2 Group A, B, C, D, File E330455 Explosion protection ATEX (EX) II 3G Ex nA II T4; UL 1804 Class I, Div. 2, Group ABCD 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 Supply harmonics limitation EN 61000-6-2 Operating data Ambient temperature / in operation 0 60 °C • Note with natural convection Ambient temparature / on transport -40 +85 °C Ambient temparature / in 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/linely stranded Connections / Output L+, M: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width /	stray current / typical	0.5 mA
CULUS-Listed (UL. 508, CSA C22.2 No. 142), File E143289, UL 1604 Class I Div. 2 Group A, B, C, D, File E303455 Explosion protection ATEX (EX) II 3G Ex nA II T4; UL 1604 Class I, Div. 2, Group ABCD 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 Supply harmonics limitation EN 61000-6-2 Operating data Ambient temperature / in operation One of C with natural convection Ambient temparature / in storage 40 +85 °C Ambient temparature / in storage 40 +85 °C Humidity class according to EN 60721 Climate class 3K3, no condensation Mechanics Connections / Supply input Chyother Surgery terminals Connections / Supply input L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded Connections / Auxiliary - Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing 120 mm Installation width	CE mark	Yes
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Marine approval Degree of protection (EN 60529) IP20 EMC Emitted interference EN 55022 Class B Supply harmonics limitation EN 61000-3-2 EN 61000-6-2 Operating data Ambient temperature / in operation Note Note Ambient temparature / on transport Ambient temparature / in storage 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 / Auxiliary Width / of the housing Depth / of the housing Depth / of the housing Destance in the special supply input Installation width Ones in Strand in the special supply input Depth / of the housing Dept	FM approval	Class I, Div. 2, Group ABCD, T4
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Emitted interference EN 55022 Class B Supply harmonics limitation EN 61000-3-2 Noise immunity EN 61000-6-2 Operating data Ambient temperature / in operation • Note with natural convection Ambient temparature / on transport -40 +85 °C Ambient temparature / in 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: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing Height / of the housing Height / of the housing Depth / of the housing Installation width 60 mm	Degree of protection (EN 60529)	IP20
Noise immunity EN 61000-3-2 Noise immunity EN 61000-6-2 Operating data Ambient temperature / in operation • Note Ambient temparature / on transport Ambient temparature / in storage 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 terminals each for 0.5 2.5 mm² single-core/finely stranded Connections / Auxiliary Vidith / of the housing Height / of the housing Depth / of the housing Installation width EN 61000-3-2 EN 61000-6-2	EMC	
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Ambient temperature / in operation • Note with natural convection Ambient temparature / on transport -40 +85 °C Ambient temparature / in 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: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Noise immunity	EN 61000-6-2
with natural convection Ambient temparature / on transport -40 +85 °C Ambient temparature / in 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: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Operating data	
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Ambient temparature / in storage -40 +85 °C 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: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing 60 mm Depth / of the housing 125 mm Depth / of the housing 120 mm	• Note	with natural convection
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: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Ambient temparature / on transport	-40 +85 °C
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: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Ambient temparature / in storage	-40 +85 °C
Connection technology screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded Connections / Output L+, M: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Humidity class according to EN 60721	Climate class 3K3, no condensation
Connections / Supply input L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded L+, M: 3 screw terminals each for 0.5 2.5 mm² Connections / Auxiliary - Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing Installation width 60 mm	Mechanics	
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Connections / Auxiliary Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Connections / Supply input	
Width / of the housing 60 mm Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Connections / Output	L+, M: 3 screw terminals each for 0.5 2.5 mm ²
Height / of the housing 125 mm Depth / of the housing 120 mm Installation width 60 mm	Connections / Auxiliary	-
Depth / of the housing 120 mm Installation width 60 mm	Width / of the housing	60 mm
Installation width 60 mm	Height / of the housing	125 mm
	Depth / of the housing	120 mm
Mounting height 205 mm	Installation width	60 mm
	Mounting height	205 mm

Weight, approx.	0.6 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of fixing / cap rail mounting	No
Type of mounting / S7-300 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:

Jul 25, 2012