

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 step setting time 50 to 100%, typ.	0.3 ms
Load step setting time 30 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.	

during short circuit current / Effective level / maximum 7 A fety mary/secondary isolation Yes tential separation Safety e 50178 circuit current / maximum 3.5 mA ay current / maximum 3.5 mA yes CSA approval Finantk Yes /CSA approval CULus-L plosion protection ATEX (E No.213) approval Class I, approval Diapproval Reproval Finante approval Diapproval Finante approval Diapproval Finante approval Diapproval Finante approval Finant	
mary/secondary isolation tential separation Safety e 50178 Detection class cy current / maximum 3.5 mA ay current / typical mark Yes CSA approval CUL (CSA) approval plosion protection ATEX (E No.213) approval cy approval cy approval cy approval dy approval cy approval dy approval cy approval dy approval cy approval dy approval dy approval dy approval cy approval dy approval dy approval for a possible interference puly harmonics limitation is in interference puly harmonics limitation is interference A TEX (E No.213) A TEX (E No.21	sted (UL 508, CSA C22.2 No. 142), File E143289 X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
tential separation Safety e 50178 ptection class Class I ay current / maximum 3.5 mA ay current / typical mark Yes /CSA approval /CUL (CSA) approval plosion protection ATEX (E No.213) I approval sapproval proval sapproval In S7-30 gree of protection (EN 60529) ICC mitted interference pply harmonics limitation ise immunity perating data sapproval No No No No No No No No No N	sted (UL 508, CSA C22.2 No. 142), File E143289 X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
tential separation Safety e 50178 citection class Class I ay current / maximum 3.5 mA ay current / typical CSA approval CUL (CSA) approval plosion protection ATEX (E No.213) approval Class I, approval In S7-30 gree of protection (EN 60529) IP20 IC Cited interference EN 5502 pply harmonics limitation is immunity EN 6100 is immunity EN 6100 interating data choient temperature / in operation Note with nature the position of transport Class I, approval Colass I, approval ATEX (E No.213) ATEX (E No.213) ATEX (E No.213) ATEX (E No.213) Colass I, approval Colass I, approval ATEX (E No.213) ATEX (E No.2	sted (UL 508, CSA C22.2 No. 142), File E143289 X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
betection class Class I ay current / maximum 3.5 mA ay current / typical 6.5 mark CSA approval CUL (CSA) approval Plosion protection ATEX (END.213) AT	sted (UL 508, CSA C22.2 No. 142), File E143289 X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
ay current / maximum 3.5 mA ay current / typical 0.5 mA Yes /CSA approval /CUL (CSA) approval plosion protection ATEX (ENC.213) I approval I approval In S7-30 gree of protection (EN 60529) IP20 ICC Intited interference EN 5502 pply harmonics limitation isse immunity EN 6100 Interference immunity EN 6100 Interference immunity Interference immu	X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
ay current / typical imark Yes /CSA approval /CUL (CSA) approval plosion protection ATEX (ENO.213) If approval Class I, II approval In S7-30 gree of protection (EN 60529) IP20 ICC mitted interference pply harmonics limitation ise immunity EN 6100 ise immunity EN 6100 ise immunity EN 6100 in S7-30 in S7	X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
rimark Yes /CSA approval Yes /CUL (CSA) approval cULus-L plosion protection ATEX (E No.213) I approval Class I, I approval No In S7-30 gree of protection (EN 60529) IP20 IC Interpretation EN 6100 Interpretating data Inte	X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
/CSA approval /cUL (CSA) approval cULus-L plosion protection ATEX (E No.213) I approval Class I, I B approval In S7-30 gree of protection (EN 60529) IP20 IC Intited interference EN 5502 pply harmonics limitation EN 6100 ise immunity EN 6100 ierating data abient temperature / in operation Note Note with naturabient temperature / on transport -40 +45	X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
cULus-L plosion protection ATEX (E No.213) I approval Class I, I s approval In S7-30 gree of protection (EN 60529) IC Inted interference EN 5502 pply harmonics limitation ise immunity EN 6100 erating data bient temperature / in operation Note Note	X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
plosion protection ATEX (E No.213) I approval Class I, I approval No In S7-30 In S7	X) II 3G Ex nA II T4; cULus (ISA 12.12.01, CSA C22.2 Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4
No.213) I approval Class I, I B approval No In S7-30 gree of protection (EN 60529) IP20 IC Intitled interference EN 5502 pply harmonics limitation EN 6100 ise immunity EN 6100 Interacting data Indicate the perature / in operation Note Interaction (EN 60529) IP20 IP20 IP20 IP20 IP20 IP20 IP30 IP30 IP30 IP30 IP30 IP30 IP30 IP3	Class I, Div. 2, Group ABCD, T4, File E330455 Div. 2, Group ABCD, T4 Div. system
In S7-30 gree of protection (EN 60529) IP20 IC Intitled interference EN 5502 IP30 IP40 EN 6100 IP40 IP50 IP50 IP502 IP502 IP503) system
gree of protection (EN 60529) IP20 IC Intitled interference EN 5502 pply harmonics limitation ise immunity EN 6100 Perating data Ibient temperature / in operation Note Note In S7-30 IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP30 IP3	
gree of protection (EN 60529) IC Initial interference EN 5502 pplly harmonics limitation EN 6100 ise immunity EN 6100 ierating data ibient temperature / in operation 0 60 or with natural inbient temperature / on transport -40 +40	
itted interference EN 5502 pply harmonics limitation EN 6100 ise immunity EN 6100 perating data phient temperature / in operation 0 60 or with natural phient temperature / on transport -40 +40 .	2 Class D
pply harmonics limitation EN 6100 ise immunity EN 6100 erating data bient temperature / in operation 0 60 or with natural bient temperature / on transport -40 +40	2 Class D
pply harmonics limitation EN 6100 Perating data This is the perature / in operation Note Note With natural point temperature / on transport -40 +40	O Class D
ise immunity EN 6100 Perating data This is immunity Description Our 60 or	Z Class B
reperating data **Note	0-3-2
• Note with natural bient temperature / on transport -40 +6	0-6-2
• Note with natural bient temperature / on transport -40 +1	
nbient temperature / on transport -40 +	С
	ral convection
nbient temperature / in storage -40 +	5 °C
	5 °C
midity class according to EN 60721 Climate	class 3K3, no condensation
echanics	
nnection technology screw-ty	pe terminals
nnections / Supply input L, N, PE stranded	1 screw terminal each for 0.5 2.5 mm² single-core/finely
nnections / Output L+, M: 3	screw terminals each for 0.5 2.5 mm²
nnections / Auxiliary -	
dth / of the housing 60 mm	
ight / of the housing 125 mm	
pth / of the housing 120 mm	
stallation width 60 mm	
ounting height 205 mm	

Weight, approx.	0.6 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Mounting type / wall mounting	No
Type of mounting / 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:

May 31, 2014

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DIN Rail Power Supplies category:

Click to view products by Siemens manufacturer:

Other Similar products are found below:

PS-3015 PSP-480S48 PSR-SD25 PS-S6024 DR-45-24 DRP048V120W1BA DVP01PU-S DVP06AD-S DVP06XA-S DVPDNET-SL
DVPDT01-S DVPPS01 DVPPS02 KHNA30F-5 KHNA60F-24 S8JX-G01524 S8JX-G01548C S8JX-G03512D S8VS-09024B-F PS-6012
PS9Z-5R1G PS-C24024 PSC-9648 5607189 KHNA30F-24 KHNA480F-24 KHNA90F-12 KHNA90F-24 DVP08ST11N DVPACAB530
DVPCOPM-SL DVPEN01-SL DVPPF01-S S8JX-G10012 S8JX-G15024 CBI1210A SS14011524 S8JX-G01505C S8TS-06024-E1 PSS2012 PSW-12024 PS-UPS40 PSC-6024 S8VS-48024A-F PSD-A60W12 96PS-A120WDIN PSD-A60W48 S8JX-G03515CD PSDA40W12 PSD-A40W24