## SIEMENS

## **Product data sheet**

## 6ES7307-1KA02-0AA0



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 / 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	4.2 A
Input current / at nominal level of the input voltage 230 V	1.9 A
Switch-on current limiting (+25 °C), max.	55 A
Duration of current limiting / at 25 °C / maximum	3 ms

Built-in incoming fuse   T 6.3 A/250 V (not accessible)     Protection in the mains power input (EC 888)   Recommended miniature circuit breaker: from 10 A characteristic C     Output   Controlled, isolated DC voltage     Read voltage Vout DC   24 V     Total tolerance, static ±   3%     Static mains compensation, sporox.   0.1 %     Bata voltage Apeak, max.   05 0m V     Residual ripple peak-peak, typ.   50 mV     Spikes peak-peak, typ.   60 mV     Spikes peak-peak, typ.   60 mV     Spikes peak-peak, typ.   60 mV     Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 mV     Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 mV     Voltage desting   -     Statu display   Green LED for 24 V OK     On/oft behavior   No overshoot of Vout (soft start)     Status display, max.   10 Ma     Current range   0 10 A     Current value lout rated   10 Ms     Current value lout rated   80 ms     Current value lout rated, port-ricuit during run-up / typlad   80 ms     Abrot-tim overioading ability for excess current / on short-circuit)<	l²t, max.	3.3 A <sup>2</sup> ·s
Output   Controlled, isolated DC voltage     Output   Controlled, isolated DC voltage     Rated voltage Vout DC   24 V     Total tolerance, static a   3%     Static mains compensation, approx.   0.1 %     Static told balancing, approx.   0.5 %     Residual ripple peak-peak, max.   S0 mV     Residual ripple peak-peak, max.   00 mV     Spikes peak-peak, max.   00 mV     Spikes peak-peak, max.   00 mV     Output voltage adjustabe   No     Output voltage adjustabe   No     Output voltage adjustabe   No     Output voltage adjustabe   No voershoot of Vout (soft start)     Status display   Green LED for 24 V OK     Or/of behavior   No overshoot of Vout (soft start)     Status display   10 nA     Current range   0	Built-in incoming fuse	T 6.3 A/250 V (not accessible)
OutputControlled, isolated DC voltageRated voltage Vout DC24 VTotat tolerance, static a3%Static tolerance, static a3%Static tole balancing, approx.0.5 %Residual inpile peak-peak, max.50 mVResidual inpile peak-peak, typ.15m VSpikes peak-peak, max. (bandwidth: 20 MHz)60 mVProduct tolature / output voltage adjustableNoOutput voltage setting6Status displayGreen LED for 24 V OKOn/dt behaviorNo covershoot of Vout (soft start)Output voltage setting10 mSStatus display10 mSStatus display10 mSCurrent range0.10 AOutput voltage setting38 AOutput setting of overloading ability for excess current / on short-circuiting80 mSOutration of overloading ability for excess current / on short-circuiting80 mSOutration of overloading ability for excess current / on short-circuiting80 mSOutration of overloading ability for excess current / on short-circuiting80 mSOutration of overloading ability for excess current / on short-circuiting80 mSOutration overloading ability for excess current / on short-circuiting80 mSOutration overloading ability for excess current / on short-circuiting80 mSOutration overloading ability for excess current / on short-circuiting80 mSOutration overloading ability for excess current / on short-circuiting80 mSOutration overloading ability for excess current / on short-circuiting80 mS <t< td=""><td>Protection in the mains power input (IEC 898)</td><td>Recommended miniature circuit breaker: from 10 A characteristic C</td></t<>	Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A characteristic C
Rated voltage Vout DC   24 V     Total tolerance, static ±   3 %     Static mains compensation, approx.   0.1 %     Static datal balancing, approx.   0.5 %     Residual ripple peak-peak, max.   05 mV     Residual ripple peak-peak, typ.   15 mV     Spikes peak-peak, max. (bandwidht: 20 MHz)   60 mV     Spikes peak-peak, max. (bandwidht: 20 MHz)   60 mV     Product feature / output voltage adjustable   No     Output voltage setting   6reen LED for 24 V OK     On/oft behavior   No overshoot Vout (soft start)     Status display   0 ms     Othord voltage setting   0.1 MA     Startup delay, max.   2 s     Voltage rise, typ.   34 A     Quinge rise, typ.   34 A     Duration of overloading ability for excess current / on short-circuit   36 A     Duration of overloading ability for excess current / on short-circuit during ore-partor.   38 A     Duration of overloading ability for excess current / on short-circuit during ore-partor.   38 A     Duration of overloading ability for excess current / on short-circuit during ore-partor.   38 A     Duration of overloading ability for	Output	
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, max.   50 mV     Spikes peak, max. (bandwidth: 20 MHz)   50 mV     Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 mV     Product feature / output voltage adjustable   No     Output voltage setting   -     Status display   Green LED for 24 V OK     On/V   Status display   10 mS     Status display   10 ms     Current range   010 A     Current range   010 A     Duration of overload current / at short-circuit during rum-up / typical   38 A     Duration of overloading ability for excess current / on short-circuit during rum-up / typical   38 A     Duration of overloading ability for excess current / on short-circuit during rum-up / typical   38 A     Duration of overloading ability for excess current / on short-circuit during the start-up.   30 ms     Short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting	Output	Controlled, isolated DC voltage
Static mains compensation, approx.   0.1 %     Static load balancing, approx.   0.5 %     Residual ripple peak-peak, max.   50 mV     Residual ripple peak-peak, max.   15 mV     Spikes peak-peak, max. (bandwidth: 20 MHz)   150 mV     Spikes peak-peak, max. (bandwidth: 20 MHz)   60 mV     Product feature / output voltage adjustable   0     Output voltage setting   -     Status display   Green LED for 24 V OK     On/off behavior   No vershood V Jout (soft start)     Status display   Green LED for 24 V OK     On/off behavior   No vershood V Jout (soft start)     Status display   10 ms     Rated current value lout rated   10 A     Current range   010 A     delivered active power / typ.   240 W     short-term overfoad current / at short-circuit during run-up / typical   80 ms     during the start-up   80 ms     short-term overfoad ing ability for excess current / on short-circuit during run-up / typical   80 ms     during the perstendent parts   80 ms     Puration of overfoading ability for excess current / on short-circuit during run-up / typical   80 m	Rated voltage Vout DC	24 V
Static load balancing, approx.   0.5 %     Residual ripple peak-peak, max.   50 mV     Residual ripple peak-peak, max.   15 mV     Spikes peak-peak, max. (bandwidth: 20 MHz)   150 mV     Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 mV     Product feature / output voltage adjustable   No     Output voltage setting   6reen LED for 24 V OK     Onlof Ushavior   No overshoot of Vou (soft start)     Status display   Green LED for 24 V OK     Onlof Ushavior   No overshoot of Vou (soft start)     Status display   Green LED for 24 V OK     Otage rise, typ.   10 ms     Rated current value lout rated   10 A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   80 ms     short-term overload current / at short-circuit during operation / typical   80 ms     short-term overload guility for excess current / on short-circuit mag   80 ms     Duration of overloading ability for excess current / on short-circuit mag   80 ms     Parallel switching for enhanced performance   Yes     Efficienc	Total tolerance, static ±	3 %
Residual ripple pak-peak, max.   50 mV     Residual ripple pak-peak, max.   15 mV     Spikes peak-peak, typ.   150 mV     Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 mV     Product feature / output voltage adjustable   No     Output voltage setting   -     Status display   Green LED for 24 V OK     On/of behavior   No overshoot of Vout (soft start)     Status display   Ornor     Status display, max.   2 s     Voltage rise, typ.   10 ms     Reted current value lout rated   10 A     Current range   0 10 A     delivered active power / typ.   38 A     Short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuit during up epation / typical   38 A     Paralel switching for enhanced performance   Yes     Efficiency   Yes     Efficiency   20 M     Duration of overloading ability for excess current / on short-circuit mus   20 ms	Static mains compensation, approx.	0.1 %
Residual ripple peak-peak, typ.   15 mV     Spikes peak-peak, max. (bandwidth: 20 MHz)   150 mV     Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 mV     Product feature / output voltage adjustable   No     Output voltage setting   -     Status display   Green LED for 24 V OK     On/of behavior   No overshoot of Vout (soft start)     Status display   Or overshoot of Vout (soft start)     Status display, max.   2 s     Voltage rise, typ.   10 ms     Rated current value lout rated   10 A     Current range   0 10 A     delivered active power / typ.   38 A     Duration of overloading ability for excess current / on short-circuiting during the start-up   38 A     Duration of overloading ability for excess current / on short-circuiting during the operational phase   Yes     Efficiency   Yout rated, approx.   90 %     Power loss at Vout rated, approx.   90 %     Power loss at Vout rated, approx.   2%     Dynamic load smoothing ((vi: 50/100/50 %), Lout ± typ.   2%     Stating time / maximu   0.1 ms     Opynamic load smoothing (out: 50/100/50 %), Lout ± typ	Static load balancing, approx.	0.5 %
Spikes peak-peak, max. (bandwidth: 20 MHz)   150 mV     Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 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   10 A     Current range   0 10 A     delivered active power / typ.   38 A     Duration of overloading ability for excess current / on short-circuith and inf the start-up   38 A     Short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuith and the operational phase   Yes     Parallel switching for enhanced performance   Yes     Efficiency   Yu     Cleaed-loop control   0 %     Opyramic mains compensation (Vin rated ±15 %), max.   0.1 %     Opyramic mains compensation (Vin rated ±15 %), max.   0.1 %     Opyramic load smoothing (lout: 50/100/50 %), Lout ± typ.   2 %     Setting time / maxim	Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)   60 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)     Status display   Z s     Voltage rise, typ.   10 ms     Rated current value lout rated   10 A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting arting the start-up   38 A     short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting at the operational phase   80 ms     Parallel switching for enhanced performance   80 A     Parallel switching for enhanced performance   90 %     Power loss at Vout rated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated ±15 %), max.   0.1 %     Dynamic mains compensation (Vin rated ±15 %), max.   0.1 %     Dynamic load smoothing (lout: 50/100/50 %), Lout	Residual ripple peak-peak, typ.	15 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   10 A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting aduring the start-up   38 A     Duration of overloading ability for excess current / on short-circuiting aduring the start-up   38 A     Duration of overloading ability for excess current / on short-circuiting adving the peratonal phase   80 ms     Parallel switching for enhanced performance   Yes     Efficiency   90 %     Power loss at Vout rated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated, approx.   9.0 %     Ontamic mains compensation (Vin rated ±15 %), max.   0.1 %     Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.   2 %     Setting time / maximum   2.1 ms </td <td>Spikes peak-peak, max. (bandwidth: 20 MHz)</td> <td>150 mV</td>	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   0 10 A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting atmit the start-up   38 A     Duration of overloading ability for excess current / on short-circuiting atmit the start-up   38 A     Duration of overloading ability for excess current / on short-circuiting atmit the start-up   38 A     Parallel switching for enhanced performance   Yes     Efficiency   Yu     Power loss at Vout rated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated, approx.   9.0%     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     Duration doverloage protection   Additional controt loop, shut	Spikes peak-peak, typ. (bandwidth: 20 MHz)	60 mV
Status displayGreen LED for 24 V OKOn/off behaviorNo overshoot of Vout (soft start)Startup delay, max.2 sVoltage rise, typ.10 msRated current value lout rated10 ACurrent range0 10 Adelivered active power / typ.240 Wshort-term overload current / at short-circuit during run-up / typical38 ADuration of overloading ability for excess current / on short-circuit80 msatring the start-up38 ADuration of overloading ability for excess current / on short-circuit80 msShort-term overload current / at short-circuit during operation / typical80 msParallel switching for enhanced performanceYesEfficiencyYuEfficiency27 WDower loss at Vout rated, lout rated, approx.90 %Power loss at Vout rated, lout rated approx.2%Dynamic mains compensation (Vin rated ±15 %), max.0.1 %Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.2%Setting time / maximum0.1 msPotection and monitoring11 12 A	Product feature / output voltage adjustable	No
On/off behavior   No overshoot of Vout (soft start)     Startup delay, max.   2 s     Voltage rise, typ.   10 ms     Rated current value lout rated   0.A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting   80 ms     Short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting   80 ms     Short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting   80 ms     Short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting   80 ms     Parallel switching for enhanced performance   Yes     Efficiency   Yes     Efficiency   90 %     Power loss at Yout rated, lout rated, approx.   90 %     Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.   2%     Sett	Output voltage setting	-
Startup delay, max.   2 s     Voltage rise, typ.   10 ms     Rated current value lout rated   10 A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting   38 A     Duration of overloading ability for excess current / on short-circuiting   38 A     Duration of overloading ability for excess current / on short-circuiting   38 A     Duration of overloading ability for excess current / on short-circuiting   38 A     Parallel switching for enhanced performance   Yes     Efficiency   27 W     Efficiency at Vout rated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated ±15 %), max.   0.1 %     Dynamic nains compensation (Vin rated ±15 %), max.   0.1 %     Statig time / maximum   0.1 ms     Protection ad monitoring   2%     Quipt overvoltage protection   Additional control loop, shutdown at <28.8 V, automatic restart	Status display	Green LED for 24 V OK
Voltage rise, typ.   10 ms     Rated current value lout rated   10 A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting during the start-up   38 A     Short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting during the start-up   38 A     Short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting alore operational phase   80 ms     Parallel switching for enhanced performance   Yes     Efficiency   Yu     Efficiency at Vout rated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated, approx.   90 %     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   Additional control loop, shutdown at <28.8 V, automatic restart	On/off behavior	No overshoot of Vout (soft start)
Rated current value lout rated   10 A     Current range   0 10 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting during the start-up   80 ms     short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting approx   38 A     Duration of overloading ability for excess current / on short-circuiting approx   80 ms     Parallel switching for enhanced performance   Yes     Efficiency   Yes     Efficiency at Vout rated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated, approx.   27 W     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   Additional control loop, shutdown at < 28.8 V, automatic restart	Startup delay, max.	2 s
Current range   010 A     delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting genation of overloading ability for excess current / on short-circuiting genation / typical   38 A     short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting genation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting genation / typical   38 A     Entern overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting genation / typical   38 A     Parallel switching for enhanced performance   Yes     Efficiency   Yes     Efficiency   20 %     Power loss at Vout rated, lout rated, approx.   90 %     Poynamic mains compensation (Vin rated ±15 %), max.   0.1 %     Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.   2 %     Setting time / maximum   0.1 %     Protection and monitoring   0.1 ms     Output overvoltage protection   Additional cont	Voltage rise, typ.	10 ms
delivered active power / typ.   240 W     short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting during the start-up   80 ms     short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting during the operational phase   80 ms     Duration of overloading ability for excess current / on short-circuiting during the operational phase   80 ms     Parallel switching for enhanced performance   Yes     Efficiency   90 %     Power loss at Vout rated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated approx.   27 W     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     Output overvoltage protection   Additional control loop, shutdown at < 28.8 V, automatic restart	Rated current value lout rated	10 A
short-term overload current / at short-circuit during run-up / typical   38 A     Duration of overloading ability for excess current / on short-circuiting   80 ms     short-term overload current / at short-circuit during operation / typical   38 A     short-term overload current / at short-circuit during operation / typical   38 A     Duration of overloading ability for excess current / on short-circuiting   80 ms     Duration of overloading ability for excess current / on short-circuiting   80 ms     Parallel switching for enhanced performance   Yes     Efficiency   10 urated, lout rated, approx.   90 %     Power loss at Vout rated, lout rated, approx.   90 %   27 W     Closed-loop control   27 W   20     Dynamic mains compensation (Vin rated ±15 %), max.   0.1 %   0.1 %     Opmamic load smoothing (lout: 50/100/50 %), Uout ± typ.   2 %   2     Setting time / maximum   0.1 ms   1.1 ms     Output overvoltage protection   Additional control loop, shutdown at <28.8 V, automatic restart	Current range	0 10 A
Duration of overloading ability for excess current / on short-circuiting during the start-up 80 ms   short-term overload current / at short-circuit during operation / typical 38 A   Duration of overloading ability for excess current / on short-circuiting during the operational phase 80 ms   Parallel switching for enhanced performance Yes   Efficiency Yes   Efficiency at Vout rated, lout rated, approx. 90 %   Power loss at Vout rated, lout rated, approx. 90 %   Closed-loop control 27 W   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   Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	delivered active power / typ.	240 W
during the start-up Short-term overload current / at short-circuit during operation / typical 38 A   Duration of overloading ability for excess current / on short-circuiting during the operational phase 80 ms   Parallel switching for enhanced performance Yes   Efficiency 90 %   Efficiency at Vout rated, lout rated, approx. 90 %   Power loss at Vout rated, lout rated, approx. 90 %   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 0.1 ms   Output overvoltage protection Additional control loop, shutdown at <28.8 V, automatic restart	short-term overload current / at short-circuit during run-up / typical	38 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase 80 ms   Parallel switching for enhanced performance Yes   Efficiency Ffficiency   Efficiency at Vout rated, lout rated, approx. 90 %   Power loss at Vout rated, lout rated, approx. 27 W   Closed-loop control 27 W   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 Additional control loop, shutdown at < 28.8 V, automatic restart		80 ms
during the operational phase Yes   Parallel switching for enhanced performance Yes   Efficiency Fficiency   Efficiency 90 %   Power loss at Vout rated, lout rated, approx. 90 %   Power loss at Vout rated, lout rated, approx. 27 W   Closed-loop control 0.1 %   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   Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	short-term overload current / at short-circuit during operation / typical	38 A
Efficiency Ffficiency   Efficiency at Vout rated, lout rated, approx. 90 %   Power loss at Vout rated, lout rated, approx. 27 W   Closed-loop control 0.1 %   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 0.1 ms   Output overvoltage protection Additional control loop, shutdown at <28.8 V, automatic restart		80 ms
Efficiency at Vout rated, lout rated, approx. 90 %   Power loss at Vout rated, lout rated, approx. 27 W   Closed-loop control 0.1 %   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 0.1 ms   Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Parallel switching for enhanced performance	Yes
Power loss at Vout rated, lout rated, approx. 27 W   Closed-loop control 0.1 %   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 0.1 ms   Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	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 0.1 ms   Protection and monitoring   Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Efficiency at Vout rated, lout rated, approx.	90 %
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	Power loss at Vout rated, lout rated, approx.	27 W
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. 2 %   Setting time / maximum 0.1 ms   Protection and monitoring 0.1 ms   Output overvoltage protection Additional control loop, shutdown at < 28.8 V, automatic restart	Closed-loop control	
Setting time / maximum 0.1 ms   Protection and monitoring Output overvoltage protection   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
Current limitation 11 12 A	Protection and monitoring	
	Output overvoltage protection	Additional control loop, shutdown at < 28.8 V, automatic restart
Characteristic feature of the output / short-circuit protected Yes	Current limitation	11 12 A
	Characteristic feature of the output / short-circuit protected	Yes

Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current / Effective level / maximum	12 A
Overload/short-circuit indicator	·
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 / 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 / in operation	0 60 °C
Note	with natural convection
Ambient temperature / on transport	-40 +85 °C
Ambient temperature / 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 mm <sup>2</sup> single-core/finely stranded
Connections / Output	L+, M: 4 screw terminals each for 0.5 2.5 mm <sup>2</sup>
Connections / Auxiliary	-
Width / of the housing	80 mm
Height / of the housing	125 mm
Depth / of the housing	120 mm
Installation width	80 mm
Mounting height	205 mm

Weight, approx.	0.8 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of mounting / standard 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:

Dec 30, 2013