## **SIEMENS**

Data sheet 6EP1322-2BA00

SITOP PSU100S 12 V/7 A SITOP PSU100S 12 V/7 A Stabilized power supply input: 120/230 V AC, output: 12 V DC/7 A



Input	
Input	1-phase AC
• Note	Automatic range selection
Supply voltage	
• 1 at AC Rated value	120 V
• 2 at AC Rated value	230 V
Input voltage	
● 1 at AC	85 132 V
• 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; at Vin = 93/187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
Input current	
<ul><li>at rated input voltage 120 V</li></ul>	1.73 A
<ul> <li>at rated input voltage 230 V</li> </ul>	0.99 A
Switch-on current limiting (+25 °C), max.	45 A

Output         Controlled, isolated DC voltage           Rated voltage Vout DC         12 V           Total tolerance, static ±         3 %           Static mains compensation, approx.         0.1 %           Static load balancing, approx.         1 %           Residual ripple peak-peak, max.         150 mV           Residual ripple peak-peak, typ.         20 mV           Spikes peak-peak, max. (bandwidth: 20 MHz)         240 mV           Spikes peak-peak, typ. (bandwidth: 20 MHz)         100 mV           Adjustment range         11.5 15.5 V           Product function Output voltage adjustable         Yes           Output voltage setting         via potentiometer           Status display         Green LED for 12 V OK           Signaling         Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK           On/off behavior         Overshoot of Vout < 3 %           Status delay, max.         0.3 s           Voltage rise, typ.         10 ms           Rated current value lout rated         7 A           Current range         0 7 A           • Note         +50 +70 °C: Derating 0.75%/K           Supplied active power typical         25 A           • at short-circuit during operation typical         25 A           • at	Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Output         Controlled, isolated DC voltage           Rated voltage Vout DC         12 V           Total tolerance, static ±         3 %           Static mains compensation, approx.         0.1 %           Static load balancing, approx.         1 %           Residual ripple peak-peak, max.         150 mV           Residual ripple peak-peak, typ.         20 mV           Spikes peak-peak, max. (bandwidth: 20 MHz)         240 mV           Spikes peak-peak, typ. (bandwidth: 20 MHz)         100 mV           Adjustment range         11.5 15.5 V           Product function Output voltage adjustable         Yes           Output voltage setting         via potentiometer           Status display         Green LED for 12 V OK           Signaling         Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK           On/off behavior         Overshoot of Vout < 3 %	Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic C
Output         Controlled, isolated DC voltage           Rated voltage Vout DC         12 V           Total tolerance, static ±         3 %           Static mains compensation, approx.         0.1 %           Static load balancing, approx.         1 %           Residual ripple peak-peak, max.         150 mV           Residual ripple peak-peak, typ.         20 mV           Spikes peak-peak, max. (bandwidth: 20 MHz)         240 mV           Spikes peak-peak, typ. (bandwidth: 20 MHz)         100 mV           Adjustment range         11.5 15.5 V           Product function Output voltage adjustable         Yes           Output voltage setting         via potentiometer           Status display         Green LED for 12 V OK           Signaling         Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK           On/off behavior         Overshoot of Vout < 3 %	Output	
Total tolerance, static ± 3 % Static mains compensation, approx. 0.1 % Static load balancing, approx. 1 % Residual ripple peak-peak, max. 150 mV Residual ripple peak-peak, max. (bandwidth: 20 MHz) 240 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 100 mV Adjustment range 11.5 15.5 V Product function Output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 12 ∨ OK Signaling Constitution Output voltage adjustable Yes Output voltage setting 10.3 % Startup delay, max. 0.3 s Startup delay, max. 0.3 s Voltage rise, typ. 10 ms Rated current value lout rated 7 A Current range 0 7 A Supplied active power typical 84 W Short-circuit during operation typical 25 A Duration of overloading capability for excess current • on short-circuiting during the start-up by load 300 ms Parallel switchiagt for enhanced performance Numbers of parallel switchable units for enhanced performance  ### Control of the parallel switchable units for enhanced performance  #### Control of Control Operation (Justice) 15 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 90 to 10%, typ. 1 ms Load step setting time 90 to 10%, typ. 1 ms		Controlled, isolated DC voltage
Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  Spikes peak-peak, max. (bandwidth: 20 MHz)  Spikes peak-peak, max. (bandwidth: 20 MHz)  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  11.5 15.5 V  Product function Output voltage adjustable  Output voltage setting  Via potentiometer  Status display  Green LED for 12 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  On/off behavior  Overshoot of Vout < 3 %  Startup delay, max.  O.3 s  Voltage rise, typ.  10 ms  Rated current value lout rated  7 A  Current range  • Note  Supplied active power typical  Short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation typical  • at short-circuit during operation protein at short-circuit during operation protein at short-circuit during operation  •	Rated voltage Vout DC	12 V
Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, kyp.  Spikes peak-peak, max. (bandwidth: 20 MHz)  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  11.5 15.5 V  Product function Output voltage adjustable  Ves  Output voltage setting  Via potentiometer  Status display  Green LED for 12 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  On/off behavior  Overshoot of Vout < 3 %  Startup delay, max.  0.3 s  Voltage rise, typ.  10 ms  Rated current value lout rated  7 A  Current range  Note  Note  Note  Note  150 7 A  50 7	Total tolerance, static ±	3 %
Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  Spikes peak-peak, typ.  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Product function Output voltage adjustable  Ves  Output voltage setting  via potentiometer  Status display  Green LED for 12 V OK  On/off behavior  Overshoot of Vout < 3 %  Startup delay, max.  Voltage rise, typ.  10 ms  Rated current value lout rated  7 A  Current range  • Note  Supplied active power typical  Short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation  Parallel switching for enhanced performance  Parallel switching for enhanced performance  Parallel switching for enhanced performance  Prower loss at Vout rated, lout rated, approx.  84 %  Power loss at Vout rated, lout rated, approx.  84 %  Power loss at Vout rated, lout rated, approx.  85 %  1 ms  1 ms  1 ms  1 ms  1 ms	Static mains compensation, approx.	0.1 %
Residual ripple peak-peak, typ.  Spikes peak-peak, max. (bandwidth: 20 MHz)  Adjustment range  Output voltage adjustable  Output voltage setting  Status display  Green LED for 12 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  Signaling  Notatrup delay, max.  Outgage rise, typ.  10 ms  Rated current value lout rated  Note  Note  Supplied active power typical  Short-term overload current  on short-circuit during operation by at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Fificiency  Efficiency  Evaluation of Stating time 10 to 90%, typ.  Load step setting time 90 to 10%, typ.  10 mV  240 mV  Sequence Apeak, max. (bandwidth: 20 MHz)  10 mV  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  Overshoot of Vout < 3 %  Relay contact, (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  Overshoot of Vout < 3 %  Sequence As Sequence  10 ms  10 ms  84 W  Short-term overload current  on short-circuit during operation typical  at short-circuit during deperation performance  Yes  Numbers of parallel switchable units for enhanced performance  Fificiency  Fificiency  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  1 ms	Static load balancing, approx.	1 %
Spikes peak-peak, max. (bandwidth: 20 MHz)  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  11.5 15.5 V  Product function Output voltage adjustable  Yes  Output voltage setting  Status display  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  Signaling  Overshoot of Vout < 3 %  Startup delay, max.  O.3 s  Voltage rise, typ.  10 ms  Rated current value lout rated  7 A  Current range  • Note  Note  Short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation typical  • at short-circuit during deperation  • at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Fificiency  Fificiency  Efficiency  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 90 to 10%, typ.  1 ms  1 ms  1 ms	Residual ripple peak-peak, max.	150 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  11.5 15.5 V  Product function Output voltage adjustable  Ves  Output voltage setting  via potentiometer  Status display  Green LED for 12 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  On/off behavior  Overshoot of Vout < 3 %  Startup delay, max.  0.3 s  Voltage rise, typ.  10 ms  Rated current value lout rated  7 A  Current range  • Note  Note  10 7 A  Supplied active power typical  Short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation typical  Duration of overloading capability for excess current  • on short-circuit during operation  • at short-circuit during operation  Parallel switching for enhanced performance  Parallel switchable units for enhanced performance  Stifficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  15 W  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 90 to 10%, typ.  1 ms  1 ms	Residual ripple peak-peak, typ.	20 mV
Adjustment range Product function Output voltage adjustable Yes Output voltage setting Status display Green LED for 12 V OK Signalling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK On/off behavior Overshoot of Vout < 3 % Startup delay, max.  Voltage rise, typ. 10 ms Rated current value lout rated 7 A Current range • Note Supplied active power typical Short-term overload current • on short-circuiting during the start-up typical • at short-circuit during operation typical Parallel switching for enhanced performance  Parallel switching for enhanced performance  Parallel switching for enhanced performance  Fificiency Efficiency Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 ms  Load step setting time 10 to 90%, typ. 1 ms  1 ms  1 ms  1 ms  1 los Note NC S S NC S S NC S NC S NC S NC S NC S	Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Product function Output voltage adjustable  Output voltage setting  Status display  Green LED for 12 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  On/off behavior  Overshoot of Vout < 3 %  Startup delay, max.  Voltage rise, typ.  Rated current value lout rated  7 A  Current range  • Note  Note  Supplied active power typical  Short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation typical  Duration of overloading capability for excess current  • on short-circuiting during the start-up  • at short-circuit during operation  Ratelle switching for enhanced performance  Parallel switching for enhanced performance  Parallel switching for enhanced performance  Fificiency  Efficiency at Vout rated, lout rated, approx.  Bunamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Typ.  Load step setting time 10 to 90%, typ.  1 ms  1 ms	Spikes peak-peak, typ. (bandwidth: 20 MHz)	100 mV
Output voltage setting  Status display  Green LED for 12 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  On/off behavior  Overshoot of Vout < 3 %  Startup delay, max.  0.3 s  Voltage rise, typ.  Rated current value lout rated  7 A  Current range • Note  Note  Note  Note  Note  Short-term overload current • on short-circuiting during the start-up typical • at short-circuit during operation typical  Duration of overloading capability for excess current • on short-circuiting during the start-up • at short-circuiting during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Ficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Adjustment range	11.5 15.5 V
Status display  Green LED for 12 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK  On/off behavior  Overshoot of Vout < 3 %  Startup delay, max.  0.3 s  Voltage rise, typ.  Rated current value lout rated  7 A  Current range • Note  Note  Supplied active power typical  Short-term overload current • on short-circuiting during the start-up typical • at short-circuit during operation typical  One short-circuiting during the start-up • at short-circuiting during the start-up • at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 ms  Load step setting time 10 to 90%, typ.  1 ms  1 ms	Product function Output voltage adjustable	Yes
Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK On/off behavior Overshoot of Vout < 3 % Startup delay, max. 0.3 s Voltage rise, typ. 10 ms Rated current value lout rated 7 A Current range 0 7 A • Note +50 +70 °C: Derating 0.75%/K Supplied active power typical 84 W Short-term overload current • on short-circuiting during the start-up typical 25 A • at short-circuit during operation typical 25 A Duration of overloading capability for excess current • on short-circuiting during the start-up 800 ms • at short-circuit during operation 800 ms Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency Efficiency at Vout rated, lout rated, approx. 15 W  Closed-loop control Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ. 1 ms Load step setting time 90 to 10%, typ. 1 ms	Output voltage setting	via potentiometer
On/off behavior  Startup delay, max.  Osas  Voltage rise, typ.  10 ms  Rated current value lout rated  7 A  Current range  Note  Note  Supplied active power typical Short-circuit during operation typical on short-circuiting during the start-up typical at short-circuiting during the start-up on short-circuiting during the start-up on short-circuiting during the start-up on short-circuiting operation typical Soo ms  at short-circuit during operation on short-circuiting operation on short-circuiting during the start-up on short-circuiting operation on short-circuiting operation values of parallel switchable units for enhanced performance  Fificiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  84 %  Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Status display	Green LED for 12 V OK
Startup delay, max.  Voltage rise, typ.  Rated current value lout rated  7 A  Current range  Note  Note  Supplied active power typical  on short-circuiting during the start-up typical  on short-circuit during operation typical  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Startup delay, max.  10 ms  10 ms  10 ms  25 A  25 A  25 A  800 ms  800 ms  800 ms  20 ms  21 ms  Efficiency  Efficiency  Efficiency  Load step setting time 90 to 10%, typ.  1 ms  1 ms	Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK
Voltage rise, typ.  Rated current value lout rated  7 A  Current range Note Note Supplied active power typical Short-term overload current on short-circuiting during the start-up typical at short-circuit during operation typical Duration of overloading capability for excess current on short-circuit during operation at short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation at short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation Another of overloading capability for excess current on short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation Short-term overloading capability for excess current on short-circuit during operation Short-term overload current on short-circuit during operation Short-circuit during operation Short-circuit during operation Short-circ	On/off behavior	Overshoot of Vout < 3 %
Rated current value lout rated  Current range Note Note Note Supplied active power typical Short-term overload current on short-circuiting during the start-up typical at short-circuit during operation typical Son short-circuit during operation typical on short-circuiting during the start-up at short-circuit during operation Son ms Parallel switching for enhanced performance Ves Numbers of parallel switchable units for enhanced performance  Fificiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 90 to 10%, typ.  1 ms Load step setting time 90 to 10%, typ.  1 ms	Startup delay, max.	0.3 s
Current range  Note  Note  Note  Supplied active power typical  Short-term overload current  on short-circuiting during the start-up typical  at short-circuit during operation typical  on short-circuiting during the start-up  on short-circuiting during the start-up  on short-circuiting during the start-up  at short-circuiting during the start-up  at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Performance  Fificiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 90 to 10%, typ.  1 ms  Load step setting time 90 to 10%, typ.	Voltage rise, typ.	10 ms
Note  Note  +50 +70 °C: Derating 0.75%/K  Supplied active power typical  Short-term overload current  on short-circuiting during the start-up typical  at short-circuit during operation typical  Ouration of overloading capability for excess current  on short-circuiting during the start-up  at short-circuit during operation  800 ms  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Performance  Fificiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 90 to 10%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Rated current value lout rated	7 A
Supplied active power typical  Short-term overload current  on short-circuiting during the start-up typical at short-circuit during operation typical on short-circuit during operation typical at short-circuit during operation typical on short-circuiting during the start-up at short-circuiting during the start-up at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Fficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Current range	0 7 A
Short-term overload current  on short-circuiting during the start-up typical at short-circuit during operation typical on short-circuiting during the start-up on short-circuiting during the start-up at short-circuiting during the start-up at short-circuit during operation  800 ms  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.	• Note	+50 +70 °C: Derating 0.75%/K
on short-circuiting during the start-up typical     at short-circuit during operation typical  Duration of overloading capability for excess current     on short-circuiting during the start-up     at short-circuit during operation     at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Pefficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Supplied active power typical	84 W
at short-circuit during operation typical  Duration of overloading capability for excess current  on short-circuiting during the start-up  at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Short-term overload current	
Duration of overloading capability for excess current  • on short-circuiting during the start-up  • at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Fficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	<ul> <li>on short-circuiting during the start-up typical</li> </ul>	25 A
on short-circuiting during the start-up     at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	<ul> <li>at short-circuit during operation typical</li> </ul>	25 A
<ul> <li>at short-circuit during operation</li> <li>Parallel switching for enhanced performance</li> <li>Numbers of parallel switchable units for enhanced performance</li> <li>Efficiency</li> <li>Efficiency at Vout rated, lout rated, approx.</li> <li>Power loss at Vout rated, lout rated, approx.</li> <li>Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.</li> <li>Load step setting time 10 to 90%, typ.</li> <li>1 ms</li> <li>Load step setting time 90 to 10%, typ.</li> <li>1 ms</li> </ul>	Duration of overloading capability for excess current	
Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	<ul> <li>on short-circuiting during the start-up</li> </ul>	800 ms
Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency at Vout rated, lout rated, approx. 84 %  Power loss at Vout rated, lout rated, approx. 15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ. 1 ms  Load step setting time 90 to 10%, typ. 1 ms	at short-circuit during operation	800 ms
Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Parallel switching for enhanced performance	Yes
Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	Numbers of parallel switchable units for enhanced	2
Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  1 ms  Load step setting time 90 to 10%, typ.  1 ms	performance	
Power loss at Vout rated, lout rated, approx.  15 W  Closed-loop control  Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.  Load step setting time 10 to 90%, typ.  Load step setting time 90 to 10%, typ.  1 ms	Efficiency	
Dynamic load smoothing (lout: 10/90/10 %), Uout ± 5 %  typ.  Load step setting time 10 to 90%, typ.  Load step setting time 90 to 10%, typ.  1 ms		84 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± 5 % typ.  Load step setting time 10 to 90%, typ. 1 ms  Load step setting time 90 to 10%, typ. 1 ms	Power loss at Vout rated, lout rated, approx.	15 W
Dynamic load smoothing (lout: 10/90/10 %), Uout ± 5 % typ.  Load step setting time 10 to 90%, typ. 1 ms  Load step setting time 90 to 10%, typ. 1 ms	Closed-loop control	
Load step setting time 10 to 90%, typ.  Load step setting time 90 to 10%, typ.  1 ms  1 ms	·	5 %
Load step setting time 90 to 10%, typ.  1 ms	typ.	
	Load step setting time 10 to 90%, typ.	1 ms
Protection and monitoring	Load step setting time 90 to 10%, typ.	1 ms
	Protection and monitoring	

Output overvoltage protection	< 20 V
Current limitation	7 8.8 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current RMS value	
• typical	8.8 A
Overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
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
• typical	0.4 mA
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	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus Class I Div. 2 (ANSI/ISA-12.12.01-2007, CSA C22.2 No. 213) Group ABCD, T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
FM approval	-
CB approval	Yes
Marine approval	DNV GL
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	
<ul><li>during operation</li></ul>	-25 +70 °C
— Note	with natural convection
during transport	-40 +85 °C
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
<ul><li>Output</li></ul>	+, -: 2 screw terminals each for 0.5 2.5 mm²
<ul><li>Auxiliary</li></ul>	Alarm signals: 2 screw terminals for 0.5 2.5 mm²
Connections signaling contact	2 screw terminals for 0.5 2.5 mm²
Width of the enclosure	50 mm
Height of the enclosure	125 mm
Depth of the enclosure	120 mm
Required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.5 kg
Product feature of the enclosure housing for side-by- side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 998 441 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)