## **SIEMENS**

Datasheet 6EP1337-3BA00

SITOP PSU100M 40 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/40 A



Technical specifications	
Product	SITOP modular
Power supply, type	24 V/40 A

Input	
Input	1-phase AC
Supply voltage 1 with AC Rated value	120 V
Supply voltage 2 with AC Rated value	230 V
• Note	Set by means of wire jumper on the device; starting from Vin > 95/190 V
Input voltage 1 with AC	85 132 V
Input voltage 2 with AC	176 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms; at Vin = 230 V
Rated line frequency	50 60 Hz
Rated line range	47 63 Hz
Input current at rated input voltage 120 V Rated value	15 A
Input current at rated input voltage 230 V Rated value	8 A
Switch-on current limiting (+25 °C), max.	125 A
l²t, max.	26 A²·s
Built-in incoming fuse	Yes

Protection in the mains power input (IEC 898)

Recommended miniature circuit breaker at 1-phase operation: 20 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V)

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. 0.1 % Residual ripple peak-peak, max. 100 mV Residual ripple peak-peak, typ. 60 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 200 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 120 mV Adjustment range 24 28.8 V Product function Output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 24 v OK Signaling via signaling module (6EP1961-3BA10) On/off behavior Overshoot of Vout approx. 3 % Startup delay, max. 0.1 s Voltage rise, typ. 50 ms Rated current value lout rated 40 A Current range 0 40 A Note 40 +70 °C: Derating 2.5%/K Active power supplied typical 0 40 A Active power supplied typical 960 W Constant overload current on short-circuit during the start-up typical Duration of overloading capability for excess current at short-circuit during operation typical Duration of overloading capability for excess current at short-circuit during operation typical 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 of overloading capability for excess current at short-circuit during operation bytical  Duration of overloading capability for excess current at short-circuit during operation Parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx. 131 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.	Output	
Total tolerance, static ± 3 % Static mains compensation, approx. 0.1 % Residual ripple peak-peak, max. 100 mV Residual ripple peak-peak, typ. 60 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 200 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 120 mV Adjustment range 24 28.8 V Product function Output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 24 V OK Signaling via signaling module (6EP1961-3BA10) On/off behavior Overshoot of Vout approx. 3 % Startup delay, max. 0.1 s Voltage rise, typ. 50 ms Rated current value lout rated 40 A Current range 0 40 A - Note +60 +70 °C: Derating 2.5%/K Active power supplied typical 960 W Constant overload current on short-circuiting during the start-up typical Short-term overload current on short-circuit during operation typical Duration of overloading capability for excess current at short-circuit during operation pycical Duration of overloading capability for excess current 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. 88 % Power loss at Vout rated, lout rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Output	Controlled, isolated DC voltage
Static load balancing, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, ktyp.  Spikes peak-peak, typ.  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Zou mV  Adjustment range  Product function Output voltage adjustable  Yes  Output voltage setting  Status display  Green LED for 24 V OK  Signaling  Via signaling module (6EP1961-3BA10)  Onoff behavior  Startup delay, max.  Voltage rise, typ.  So ms  Rated current value lout rated  Note  Note  Note  Note  Active power supplied typical  Constant overload current at short-circuit during the start-up typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation bypical  Duration of overloading capability for excess current at short-circuit during operation bypical  Duration of overloading capability for excess current at short-circuit during operation bypical  Duration of overloading capability for excess current at short-circuit during operation bypical  Duration of overloading capability for excess current at short-circuit during operation bypical  Duration of overloading capability for excess current at short-circuit during operation bypical  Duration of overloading capability for excess current at short-circuit during operation bypical  Duration of overloading capability for excess current at short-circuit during operation bypical  Direction of overloading capability for excess current at short-circuit during operation bypical  Direction of overloading capability for excess current at short-circuit during operation bypical  Direction of overloading capability for excess current at short-circuit during operation bypical  Direction of overloading capability for excess current at short-circuit during operation bypical  Direction of overloading capability for excess current at short-circuit dur	Rated voltage Vout DC	24 V
Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Bol mV  Spikes peak-peak, max. (bandwidth: 20 MHz)  Spikes peak-peak, lyp. (bandwidth: 20 MHz)  Adjustment range  24 28.8 V  Product function Output voltage adjustable  Yes  Output voltage setting  Status display  Green LED for 24 V OK  Signaling  On/off behavior  Overshoot of Vout approx. 3 %  Startup delay, max.  O.1 s  Voltage rise, typ.  So ms  Rated current value lout rated  40 A  Current range  • Note  • Note  • Note  Active power supplied typical  Constant overload current at short-circuiting during the start-up typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Ba %  Power loss at Vout rated, lout rated, approx.  1 %  max.  Dynamic load smoothing (fout: 50/100/50 %), Uout ±  Dynamic load smoothing (fout: 50/100/50 %), Uout ±  Dynamic load smoothing (fout: 50/100/50 %), Uout ±	Total tolerance, static ±	3 %
Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  60 mV  Spikes peak-peak, max. (bandwidth: 20 MHz)  200 mV  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  24 28.8 V  Product function Output voltage adjustable  Output voltage setting  Via potentiometer  Status display  Signaling  On/off behavior  Overshoot of Vout approx. 3 %  Startup delay, max.  O.1 s  Voltage rise, typ.  So ms  Rated current value lout rated  40 A  Current range  • Note  • Note  Active power supplied typical  Constant overload current at short-circuiting during the start-up typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation of perallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  200 mV  210 mV  200 mV  210 mV	Static mains compensation, approx.	0.1 %
Residual ripple peak-peak, typ.  Spikes peak-peak, max. (bandwidth: 20 MHz)  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  Product function Output voltage adjustable  Output voltage setting  Status display  Green LED for 24 V OK  Signaling  Via signaling module (6EP1961-3BA10)  On/off behavior  Startup delay, max.  Otlage rise, typ.  Rated current value lout rated  40 A  Current range  Note  Note  Note  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Parallel switchable units for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Efficiency  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  2 6 mutual 20 mV  24 28.8 V  25 ms  46 A  47	Static load balancing, approx.	0.1 %
Spikes peak-peak, max. (bandwidth: 20 MHz)  Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  24 28.8 V  Product function Output voltage adjustable  Output voltage setting  Status display  Signaling  On/off behavior  Overshoot of Vout approx. 3 %  Startup delay, max.  O.1 s  Voltage rise, typ.  Rated current value lout rated  • Note  Active power supplied typical  Constant overload current on short-circuit during the start-up typical  Duration of overloading capability for excess current at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Efficiency  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  24 28.8 V  25 mV  25 mS  26 real LED for 24 V OK  36 real LED for 24 V OK  36 real LED for 24 V OK  36 real LED for 24 V OK  37 singularity as a singularity and suit as produce (6EP1961-3BA10)  Overshoot of Vout approx. 3 %  38 valiants and suit approx. 46 A  40	Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)  Adjustment range  24 28.8 V  Product function Output voltage adjustable  Yes  Output voltage setting  Status display  Green LED for 24 V OK  Signaling  On/off behavior  Overshoot of Vout approx. 3 %  Startup delay, max.  O.1 s  Voltage rise, typ.  Rated current value lout rated  40 A  Current range  • Note  Active power supplied typical  Constant overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current 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.  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  2 4 28.8 V  Yes  Via potentiometer  Ves (switchable units for enhanced performance)  120 M  120 M  24 28.8 V  Vout rated, lout rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  2 9 6 0 V  2 4 28.8 V  Yes  Yes  Yes  Yes  Switchable characteristic  1 1 %  1 1 %  2 9 6 V  2 9 6 V  Power loss at Yout rated, 10 tr rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  2 9 6 V  Efficiency  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  2 9 6 V  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	Residual ripple peak-peak, typ.	60 mV
Adjustment range 24 28.8 V  Product function Output voltage adjustable Yes  Output voltage setting via potentiometer  Status display Green LED for 24 V OK  Signaling via signaling module (6EP1961-3BA10)  On/off behavior Overshoot of Vout approx. 3 %  Startup delay, max. 0.1 s  Voltage rise, typ. 50 ms  Rated current value lout rated 40 A  Current range 0 40 A  • Note +60 +70 °C: Derating 2.5%/K  Active power supplied typical 960 W  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Parallel switching for enhanced performance Yes; switchable characteristic  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency at Vout rated, lout rated, approx. 88 %  Power loss at Vout rated, lout rated, approx. 131 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Product function Output voltage adjustable  Output voltage setting  Status display  Green LED for 24 V OK  Signaling  via signaling module (6EP1961-3BA10)  On/off behavior  Overshoot of Vout approx. 3 %  Startup delay, max.  O.1 s  Voltage rise, typ.  Rated current value lout rated  • Note  • Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation for parallel switching for enhanced performance  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.  1 %  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Spikes peak-peak, typ. (bandwidth: 20 MHz)	120 mV
Output voltage setting  Status display  Green LED for 24 V OK  Signaling  via signaling module (6EP1961-3BA10)  On/off behavior  Overshoot of Vout approx. 3 %  Startup delay, max.  O.1 s  Voltage rise, typ.  Rated current value lout rated  40 A  Current range  • Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Adjustment range	24 28.8 V
Status display  Signaling  Via signaling module (6EP1961-3BA10)  On/off behavior  Overshoot of Vout approx. 3 %  Startup delay, max.  0.1 s  Voltage rise, typ.  Rated current value lout rated  40 A  Current range  • Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 %  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±	Product function Output voltage adjustable	Yes
Signaling via signaling module (6EP1961-3BA10)  On/off behavior Overshoot of Vout approx. 3 %  Startup delay, max. 0.1 s  Voltage rise, typ. 50 ms  Rated current value lout rated 40 A  Current range 0 40 A  - Note +60 +70 °C: Derating 2.5%/K  Active power supplied typical 960 W  Constant overload current on short-circuiting during the start-up typical Short-term overload current at short-circuit during operation typical Duration of overloading capability for excess current at short-circuit during operation Parallel switching for enhanced performance Yes; switchable characteristic  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx. 88 %  Power loss at Vout rated, lout rated, approx. 131 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Output voltage setting	via potentiometer
On/off behavior  Startup delay, max.  Voltage rise, typ.  Rated current value lout rated  40 A  Current range  Note  Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation for parallel switching for enhanced performance  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Status display	Green LED for 24 V OK
Startup delay, max.  Voltage rise, typ.  Rated current value lout rated  40 A  Current range  • Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation stort-circuit during operation stort-circuit during operation  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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Signaling	via signaling module (6EP1961-3BA10)
Voltage rise, typ.  Rated current value lout rated  40 A  Current range  • Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical switching for enhanced performance  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.  131 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	On/off behavior	Overshoot of Vout approx. 3 %
Rated current value lout rated  Current range  Note  Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current 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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Startup delay, max.	0.1 s
Ourrent range  ● Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current 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.  131 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Voltage rise, typ.	50 ms
Note  +60 +70 °C: Derating 2.5%/K  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation turing operation  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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Rated current value lout rated	40 A
Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current 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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Current range	0 40 A
Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current 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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	• Note	+60 +70 °C: Derating 2.5%/K
the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current 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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ±  25 ms  25 ms  25 ms  28 %  Pes; switchable characteristic  2  2  2  2  2  2  2  2  2  2  2  2  2	Active power supplied typical	960 W
Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current 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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Constant overload current on short-circuiting during	46 A
operation typical  Duration of overloading capability for excess current 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 mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	the start-up typical	
Duration of overloading capability for excess current 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.  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Short-term overload current at short-circuit during	120 A
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.  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	operation typical	
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.  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %		25 ms
Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %		
Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %		
Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  131 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	•	2
Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	регтогтапсе	
Power loss at Vout rated, lout rated, approx.  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Efficiency	
Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Efficiency at Vout rated, lout rated, approx.	88 %
Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Power loss at Vout rated, lout rated, approx.	131 W
Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	Clased loop control	
max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %	•	1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %		
		2 %

Load step setting time 50 to 100%, typ.	2 ms
Load step setting time 100 to 50%, typ.	2 ms
Setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Current limitation, typ.	46 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 46 A or latching shutdown
Enduring short circuit current RMS value typical	46 A
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
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	0.4 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	ATEX (EX) II 3G Ex nA IIC T3 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
FM approval	
CB approval	No
Marine approval	
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature during operation	0 70 °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 0.2 4 mm² single-core/finely stranded
Connections Output	+, -: 2 screw terminals each for 0.5 10 mm²
Connections Auxiliary	-
Width of the enclosure	240 mm
Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Weight, approx.	2.9 kg
Product property of the enclosure housing for side- by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
Electrical accessories	Buffer module, signaling module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)