SIEMENS

Product data sheet 6EP1437-2BA20



SITOP PSU300S 40A STABILIZED POWER SUPPLY INPUT: 400-500 V 3AC OUTPUT: 24 V DC/40 A

Technical specifications	
Product	SITOP PSU300S
Power supply, type	24 V/40 A
Input	
Input	3-phase AC
Supply voltage	
• at AC	400 500 V
Voltage range	340 550 V
Wide-range input	Yes
Mains buffering at lout rated, min.	6 ms
Mains buffering	at Vin = 400 V
Rated line frequency	50 / 60 Hz
Rated line range	47 63 Hz
Input current / at nominal level of the input voltage 400 V	2 A
Input current / at nominal level of the input voltage 500 V	1.7 A
Switch-on current limiting (+25 °C), max.	60 A
l²t, max.	3.4 A²-s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)

Output Controlled, isolated DC voltage Rated voltage Vout DC 24 V Total Informace, static ± 3 % Static mains compensation, approx. 1 % Static load balancing, approx. 150 mV Residual ripple peak-peak, max. 150 mV Splices peak-peak, max. (anonwidth: 20 MHz) 240 mV Adjustment range 24 28 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer • Note max. 960 W Status display Green LED for 24 v OK Signaling Relay contact (NO contact, rating 60 v DC/ 0.3 A) for "24 v OK" Spralling Relay contact (NO contact, rating 60 v DC/ 0.3 A) for "24 v OK" Status display 1.5 a Voltage rices typ. 15 ms Voltage rices typ. 15 ms Voltage rices typ. 40 A Current range 0 40 A • Note 40 A Gelivered active power / typ. 860 W short-term overload current / at short-circuit during run-up / typical 85 A Duration of overloading abi	Output	
Total tolerance, static ± 3 % Static mains compensation, approx. 1 % Static mains compensation, approx. 2 % Residual ripple peak-peak, max. 150 mV Spiles peak-peak, max. (bandwidth: 20 MHz) 240 mV Adjustment range 2428 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer max. 960 W Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" Ordeff behavior No overshoot of Vout (soft starr) Status delay, max. 1.5 s Voltage increase time / of the output voltage / maximum 500 ms Rated current value lout rated 40 A Current range 0 40 A Current roverload current / at short-circuit during run-up / typical for A Duration of overloading ability for excess current / on short-circuiting during the start-up short-term overload current / at short-circuit during peration / typical of Short-circui	Output	Controlled, isolated DC voltage
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Residual ripple peak-peak, max. Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range 24 28 V Product feature / output voltage adjustable Ves Output voltage setting	Static mains compensation, approx.	1 %
Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range 24 28 V Product feature / output voltage adjustable Yes Output voltage setting Note *Note *Note Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" On/off behavior No overshoot of Vout (soft start) Startup delay, max. 1.5 s Voltage rise, typ. Voltage increase time / of the output voltage / maximum 500 ms Rated current value lout rated 40 A Current range Note *Note *Note *As A up to +45°C; +60 +70 °C; Derating 2.5%/K delivered active power / typ. \$hort-term overload current / at short-circuit during run-up / typical delivered active power / typ. \$hort-term overload durrent / at short-circuit during run-up / typical Short-term overload current / at short-circuit during operation / typical short-term overload durrent / at short-circuit during operation / typical Short-term overload for orenhanced performance Parallel switchable units for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 91.5 % Power loss at Yout rated, lout rated, approx. 91.5 % Power loss at Yout rated, lout rated, approx. 91.5 % Power loss at Yout rated, lout rated, approx. 91.5 % Power loss at Yout rated, lout rated, approx. 91.5 % Power loss at Yout rated, lout rated, approx. 91.5 % Power loss at Yout rated, lout rated, approx. 91.5 % Load step setting time 50 to 100%, typ. 1 ms Load step setting time 100 to 50%, typ. 1 ms Load step setting time 100 to 50%, typ. 1 ms	Static load balancing, approx.	2 %
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Product feature / output voltage adjustable Output voltage setting Note Note Max. 960 W Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start) Startup delay, max. 1.5 s Voltage rise, typ. 15 ms Voltage increase time / of the output voltage / maximum 500 ms Rated current value lout rated 40 A Current range Note 48 A up to +45°C; +60 +70 °C; Derating 2.5%/K delivered active power / typ. 960 W short-term overload current / at short-circuit during run-up / typical during the start-up short-term overload current / at short-circuit during operation / typical during the operational phase Parallel switching for enhanced performance Fificiency Efficiency at Vout rated, but rated, approx. 91.5 % Power loss at Vout rated, lout rated, approx. 91.5 % Power loss at Vout rated, lout rated, approx. 91.5 % Poynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Load step setting time / maximum 10 ms Setting lime / maximum 10 ms Stating inter / maximum Presentation of to maximum Yes Setting time / maximum 10 ms	Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
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Voltage rise, typ. Voltage increase time / of the output voltage / maximum Soo ms Rated current value lout rated 40 A Current range • Note 48 A up to +45°C; +60 +70 °C: Derating 2.5%/K delivered active power / typ. short-term overload current / at short-circuit during run-up / typical Duration of overloading ability for excess current / on short-circuiting during the start-up short-term overload current / at short-circuit during operation / typical short-term overload pability for excess current / on short-circuiting during the operational phase Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. 91.5 % Power loss at Vout rated, lout rated, approx. 99.9 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 3 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Load step setting time 50 to 100%, typ. 1 ms Load step setting time 100 to 50%, typ. 5 1 ms Setting time / maximum 10 ms	On/off behavior	No overshoot of Vout (soft start)
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Rated current value lout rated 40 A Current range Note 48 A up to +45°C; +60 +70 °C: Derating 2.5%/K delivered active power / typ. 960 W short-term overload current / at short-circuit during run-up / typical 55 A Duration of overloading ability for excess current / on short-circuiting during the start-up short-term overload current / at short-circuit during operation / typical short-term overload gability for excess current / on short-circuiting during the operational phase Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 91.5 % Power loss at Vout rated, lout rated, approx. 89 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 3 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. 1.5 % Load step setting time 50 to 100%, typ. 1 ms Setting time / maximum 10 ms	Voltage rise, typ.	15 ms
Current range • Note 48 A up to +45°C; +60 +70 °C: Derating 2.5%/K delivered active power / typ. short-term overload current / at short-circuit during run-up / typical buration of overloading ability for excess current / on short-circuiting during the start-up short-term overload current / at short-circuit during operation / typical short-term overloading ability for excess current / on short-circuiting during the operational phase Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 91.5 % Power loss at Vout rated, lout rated, approx. 99.9 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. 1.5 % Load step setting time 50 to 100%, typ. 1 ms Setting time / maximum 10 ms	Voltage increase time / of the output voltage / maximum	500 ms
Note 48 A up to +45°C; +60 +70 °C: Derating 2.5%/K delivered active power / typ. short-term overload current / at short-circuit during run-up / typical Duration of overloading ability for excess current / on short-circuiting during the start-up short-term overload current / at short-circuit during operation / typical short-term overload current / at short-circuit during operation / typical buration of overloading ability for excess current / on short-circuiting during the operational phase Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 91.5 % Power loss at Vout rated, lout rated, approx. 89 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 3 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. 1.5 % Load step setting time 50 to 100%, typ. 1 ms Setting time / maximum 10 ms	Rated current value lout rated	40 A
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Duration of overloading ability for excess current / on short-circuiting during the start-up short-term overload current / at short-circuit during operation / typical 65 A Duration of overloading ability for excess current / on short-circuiting during the operational phase Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. 91.5 % Power loss at Vout rated, lout rated, approx. 89 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 3 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. 1.5 % Load step setting time 50 to 100%, typ. 1 ms Load step setting time 100 to 50%, typ. 1 ms Setting time / maximum 10 ms	delivered active power / typ.	960 W
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Duration of overloading ability for excess current / on short-circuiting during the operational phase Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. 89 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 3 % Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Load step setting time 50 to 100%, typ. 1 ms Load step setting time 100 to 50%, typ. Setting time / maximum 10 ms		120 ms
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Load step setting time 50 to 100%, typ. 1 ms Load step setting time 100 to 50%, typ. 1 ms Setting time / maximum 10 ms	Dynamic mains compensation (Vin rated ±15 %), max.	3 %
Load step setting time 100 to 50%, typ. 1 ms Setting time / maximum 10 ms	Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1.5 %
Setting time / maximum 10 ms	Load step setting time 50 to 100%, typ.	1 ms
-	Load step setting time 100 to 50%, typ.	1 ms
Protection and monitoring	Setting time / maximum	10 ms
	Protection and monitoring	

Output overvoltage protection	protection against overvoltage in case of internal fault Vout < 35 V
Current limitation, typ.	50 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current / Effective level / maximum	14 A
Enduring short circuit current / Effective level / typical	
• Note	overload capability 150 % lout rated up to 5 s/min
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
CE mark	Yes
UL/CSA approval	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	ATEX (EX) II 3G Ex nA nC IIC T3; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
FM approval	-
CB approval	Yes
Marine approval	GL, ABS
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 70 °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	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.5 10 mm ²
Connections / Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²
Width / of the housing	150 mm
Height / of the housing	145 mm
Depth / of the housing	150 mm

Installation width	150 mm
Mounting height	225 mm
Weight, approx.	3.7 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Mounting type / wall mounting	No
Type of mounting / standard rail mounting	Yes
Mounting type / S7 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x15
Electrical accessories	Buffer module
Mechanical accessories	Device identification label 20 mm × 7 mm, pastel-turpuoise 3RT1900 -1SB20
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung: