SIEMENS

Data sheet

6EP3436-8MB00-2CY0

SITOP PSU8600 20A/4X5A PN

SITOP PSU8600 20 A/4x5 A PN Stabilized power supply input: 400-500 V 3 AC output: 24 V DC/20 A/4x 5 A with PN/IE connection Web server integrated OPC UA server integrated



Input	
Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	320 575 V
Note	Derating 320 360 and 530 575 V
Wide-range input	Yes
Mains buffering at lout rated, min.	15 ms; at Vin = 400 V; Prioritized supply Output 1 at power failure can be selected via DIP switch
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
Input current	
 at rated input voltage 400 V 	1.4 A
 at rated input voltage 500 V 	1.1 A
Switch-on current limiting (+25 °C), max.	14 A
l²t, max.	1.2 A ² ·s
Built-in incoming fuse	none

Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)

Output	
Output	Controlled, isolated DC voltage
Number of outputs	4
Rated voltage Vout DC	24 V
Output voltage	
 at output 1 at DC Rated value 	24 V
 at output 2 at DC Rated value 	24 V
 at output 3 at DC Rated value 	24 V
 at output 4 at DC Rated value 	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.2 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Adjustment range	4 28 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system
Status display	3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4
Signaling	Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for "Operating state OK"
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	1 s; Without on-delay of the outputs
connection of outputs operating	Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set
Voltage increase time of the output voltage maximum	500 ms
Rated current value lout rated	20 A
Output current	
• per output	5 A
 at output 1 Rated value 	5 A
 at output 2 Rated value 	5 A
• at output 3 Rated value	5 A
• at output 4 Rated value	5 A
Current range	0 20 A
• Note	+50 +60 °C: Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 240 W

Supplied active power typical	480 W
Product feature parallel switching of outputs	Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can be
	selected via DIP switch
Parallel switching for enhanced performance	No
Efficiency	
Efficiency at Vout rated, lout rated, approx.	93 %
Power loss at Vout rated, lout rated, approx.	34 W
Power loss [W] during no-load operation maximum	12 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	0.4 %
Setting time maximum	10 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Property of the output Short-circuit proof	Yes
Short-circuit protection	electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches
adjustable response value current of current- dependent overload trip	0.5 5 A
type of threshold value setting	via potentiometer
characteristics of electronic overload switch-off	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms
characteristics of constant current operation	la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous
Reset	Via sensor per output
Remote reset	Non-electrically isolated 24 V input (signal level "high" at > 15 V)
Overcurrent overload capability in normal operation	Total system overloadable 150% la rated to 5 s/min
Overload/short-circuit indicator	3-color LED for operating state device; 3-color LED per output for operating state output
Interface	
Specification interface	Ethernet/PROFINET
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
	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; 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	ABS, 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	
 during operation 	-25 +60 °C
— Note	with natural convection
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3; in addition 95% maximum relative humidity, but without condensation
Mechanics	
Connection technology	Plug-in terminals with screwed connection
Connections	
Supply input	L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 4 mm ² single-wire / fine stranded
• Output	1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 2.5 mm ² ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 4 mm ²
Auxiliary	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm ²
Connections signaling contact	11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm ²
Product function	
 removable terminal at input 	Yes
 removable terminal at output 	Yes
Design of the interface for communication	PROFINET/Ethernet: two RJ45 sockets (2-port switch)
Suitability for interaction modular system	Yes
Width of the enclosure	100 mm
Height of the enclosure	125 mm
Depth of the enclosure	150 mm
Required spacing	
● top	50 mm
• bottom	50 mm

● right	0 mm
Weight, approx.	2 kg
Product feature of the enclosure housing for side-by- side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
Electrical accessories	Expansion modules CNX8600, buffer modules BUF8600
Mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900- 1SB20
MTBF at 40 °C	243 178 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)