SIEMENS

Data sheet

6EP3436-8MB00-2CY0



SITOP PSU8600/3AC/24VDC/20A/4X5A PN

SITOP PSU8600 3AC 20A/4x5A PN Stabilized power supply Input: 400-500 V 3 AC output: 24 V DC/20 A/4x 5 A with PN/IE connection Integrated web server 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 Vin = 400 V; Prioritized supply Output 1 at power failure can be selected via DIP switch
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
Protection in the mains power input (IEC 898)	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
 output voltage at output 2 at DC rated value 	24 V
 output voltage at output 3 at DC rated value 	24 V
 output voltage 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 or IE/PN interface; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system

Statua diaplay	2 color LED for operating state device: LED for operating mode
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	max. 35 V (max. 500 ms)
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 or IE/PN interface
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	Ia limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous
Reset	via sensor per output or IE/PN interface
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
design of the interface PROFINET protocol	_ Yes
protocol is supported OPC UA Safety	Yes
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	
	IP20	
Degree of protection (EN 60529)	IP20	
Approvals		
CE mark		
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	-	
certificate of suitability NEC Class 2	No	
FM approval	-	
CB approval	Yes	
certificate of suitability EAC approval	Yes	
Marine approval	ABS, DNV GL	
EMC		
Emitted interference	EN 55022 Class B	
Supply harmonics limitation	EN 61000-3-2	
Noise immunity	EN 61000-6-2	
environmental conditions		
ambient temperature		
during operation	-25 +60 °C	
- Note	with natural convection	
	-40 +85 °C	
during transport		
during storage	-40 +85 °C	
Humidity class according to EN 60721	Climate class 3K3, 5 95% no 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	
 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	
• left	0 mm	
● right	0 mm	
Weight, approx.	2 kg	
product feature of the enclosure housing can be lined up	Yes	
Installation	Snaps onto DIN rail EN 60715 35x15	
electrical accessories	Expansion modules CNX8600, buffer modules BUF8600, module UPS8600	
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)	