SIEMENS

Data sheet

6EP3437-8MB10-2CY0



SITOP PSU8600/3AC/DC24V/40A/4X10A EIP

SITOP PSU8600 3AC 40 A/4x10 A EIP stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A/4x 10 A with EIP connection

nput	
type of the power supply network	3-phase AC
supply voltage at AC	
minimum rated value	400 V
maximum rated value	500 V
initial value	320 V; Derating 320 360 and 530 575 V
full-scale value	575 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch
line frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 400 V 	2.75 A
 at rated input voltage 500 V 	2.2 A
current limitation of inrush current at 25 °C maximum	14 A
I2t value maximum	2.24 A ² ·s
fuse protection type	none
• in the feeder	Required: 3-pole connected miniature circuit breaker 10 16 A characteristic or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	4
output voltage at DC rated value	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
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
on slow fluctuation of input voltage	0.2 %
on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	100 mV

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voltage peak	200 mV
maximum	200 mV
adjustable output voltage	4 28 V
product function output voltage adjustable	Yes State of the S
type of output voltage setting	via potentiometer or EIP interface; Derating > 24 V: 4%/V; max. 240 W per output, max. 960 W overall system
display version for normal operation	3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication EtherNet/IP™; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4
type of signal at output	Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for "Operating state OK"
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1 s; Without on-delay of the outputs
type of outputs connection	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
output current	
• rated value	40 A
• per output	10 A
at output 1 rated value	10 A
at output 2 rated value	10 A
at output 3 rated value	10 A
at output 4 rated value	10 A
• rated range	0 40 A; +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. 480 W
supplied active power typical	960 W
Efficiency	900 W
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efficiency in percent	93 %
 power loss [W] at rated output voltage for rated value of the output current typical 	72 W
 during no-load operation maximum 	20 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	0.4 %
setting time	
• maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	max. 35 V (max. 500 ms)
property of the output short-circuit proof	Yes
design of short-circuit protection	electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches
adjustable current response value current of the current- dependent overload release	0.5 10 A
type of response value setting	via potentiometer or EIP interface
switching characteristic	
• of the excess current	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms
of the current limitation	la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous
design of the reset device/resetting mechanism	via sensor per output or EIP interface
remote reset function	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
display version for overload and short circuit	3-color LED for operating state device; 3-color LED per output for operating state output
nterface	
decign of the interface	EtherNet/IP™
design of the interface	
Safety galvanic isolation between input and output	Yes

apparating recourses protection states	Class I
operating resource protection class	Class I
leakage current	0.54
• maximum	3.5 mA
protection class IP	IP20
Approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
C-Tick	No
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	ABO, DITY OL
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
DNV GL	Yes
Lloyds Register of Shipping (LRS) Niggar (Gill Kyalini (NK))	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	511 55000 OL - D
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +60 °C; with natural convection
 during transport 	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	Plug-in terminals with screwed connection
at input	L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 4 mm² single-wire / fine stranded
• at 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 10 mm ²
• for auxiliary contacts	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm²
for signaling contact	11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm²
product function	
removable terminal at input	Yes
removable terminal at output	Yes
design of the interface for communication	EtherNet/IP™: two RJ45 sockets (2-port switch)
suitability for interaction modular system	Yes
width of the enclosure	125 mm
height of the enclosure	125 mm
depth of the enclosure	150 mm
required spacing	
• top	50 mm
top	

● left	0 mm
• right	0 mm
net weight	2.6 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	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	207 612 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

