SIEMENS

Data sheet 6EP3123-0TA00-0AY0

SITOP PSU3400/DC/DC/24V/12V/8A

SITOP PSU3400 12 V/8 A Stabilized power supply Input: 24 V DC (14…32 V) Output: 12 V DC/8 A

Input	
Input	DC voltage
● Note	Startup as of 18 V, derating necessary for 14 ... 18 V DC
supply voltage	
● at DC	24 ... 24 V
input voltage	
● at DC	14 ... 32 V
Wide-range input	No
Overvoltage resistance	-
Mains buffering	at Vin = 24 V
Mains buffering at Iout rated, min.	5 ms; at Vin = 24 V
input current	
● at rated input voltage 24 V	4.5 A
Switch-on current limiting (+25 °C), max.	15 A
I^2t, max.	0.18 $A^2 \cdot s$
Built-in incoming fuse	15 A (not accessible), breaking capacity 100 A
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 16 A characteristic B or C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	12 V
● output voltage at output 1 at DC rated value	12 V
Total tolerance, static ±	2 %
Static mains compensation, approx.	0.2 %
Static load balancing, approx.	1.3 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	250 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	30 mV
Adjustment range	12 ... 15.5 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 12 V OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.5 s
Voltage rise, typ.	10 ms
voltage increase time of the output voltage maximum	20 ms
Rated current value Iout rated	8 A

Current range	0 ... 8 A
● Note	+60 ... +70 °C: Derating 2%/K
supplied active power typical	107 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	90 %
Power loss at Vout rated, Iout rated, approx.	11 W
power loss [W] during no-load operation maximum	1.5 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	4 %
Load step setting time 50 to 100%, typ.	2 ms
Load step setting time 100 to 50%, typ.	2 ms
Protection and monitoring	
Output overvoltage protection	Ua < 22 V
Current limitation, typ.	9 A
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Overload/short-circuit indicator	Yellow LED overload
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class III
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
certificate of suitability EAC approval	Yes
Regulatory Compliance Mark (RCM)	Yes
Marine approval	ABS, DNV GL
EMC	
Emitted interference	EN 61000-6-3
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
● during operation	-25 ... +70 °C
— Note	with natural convection
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 … 95% no condensation
Mechanics	
Connection technology	screw-type terminals
Connections	
● Supply input	L, N, FE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
● Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
width of the enclosure	32 mm
height of the enclosure	100 mm
depth of the enclosure	100 mm
required spacing	
● top	50 mm

● bottom	50 mm
● left	0 mm
● right	0 mm
Weight, approx.	0.32 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
MTBF at 40 °C	1 934 648 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)