



SITOP CNX8600 4X 10A EXTENSION MODULE FOR PSU8600
OUTPUT: 24 V/4X 10 A DC

Technical specifications

Product	SITOP CNX8600
Power supply, type	4x 10 A

Output

Output	Controlled, isolated DC voltage
Number of outputs	4
Rated voltage Vout DC	24 V
Output voltage at output 1 for DC Rated value	24 V
Output voltage at output 2 for DC Rated value	24 V
Total tolerance, static \pm	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	11 ... 28 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; Derating > 24 V: 4%/V; max. 240 W per output, max. 960 W overall system
Status display	3-color LED for operating state module; 3-color LED per output for operating state output
Signaling	Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for "Operating state OK" at power supply unit PSU8600
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	1.5 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 at power supply unit PSU8600 can be set
Voltage increase time of the output voltage maximum	500 ms
Rated current value I _{out} rated	40 A
Output current per output	10 A
Output current at output 1 Rated value	10 A
Output current at output 2 Rated value	10 A
Current range	0 ... 40 A
• Note	No increase in the maximum output power of the overall system SITOP PSU8600 via the expansion module SITOP CNX8600 possible
Active power supplied typical	960 W
Parallel switching for enhanced performance	No

Efficiency

Efficiency at V _{out} rated, I _{out} rated, approx.	97 %
Power loss at V _{out} rated, I _{out} rated, approx.	30 W

Closed-loop control

Dynamic mains compensation (V _{in} rated ± 15 %), max.	0.1 %
Dynamic load smoothing (I _{out} : 50/100/50 %), U _{out} \pm 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
adjustable response value current of current-dependent overload trip	0.5 ... 10 A
type of threshold value setting	via potentiometer
characteristics of electronic overload switch-off	I _a > 1.0...< 1.5 x I _a threshold permissible for 5 s; I _a limit (= 1.5 x I _a threshold) permissible for 200 ms
Reset	Via sensor per output
Remote reset	Non-electrically isolated 24 V input (signal level "high" at > 15 V) at power supply unit PSU8600
Overload/short-circuit indicator	3-color LED for operating state module; 3-color LED per output for operating state output

Interface

Specification interface	Ethernet/PROFINET via power supply unit PSU8600
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Safety

Primary/secondary isolation	Yes
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Galvanic isolation	Safety extra-low output voltage U _{out} 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
Explosion protection	-
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
FM approval	-
CB approval	No
Approvals	No
Marine approval	-
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
Ambient temperature during transport	-40 ... +85 °C
Ambient temperature during storage	-40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics

Connection technology	Plug-in terminals with screwed connection
Connections 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 ; Ground: Plug-in terminal with 3 screwed connections for 0.2 ... 2.5 mm ²
Product function removable terminal at output	Yes
Width of the enclosure	60 mm
Height of the enclosure	125 mm
Depth of the enclosure	150 mm
Required spacing top	50 mm
Required spacing bottom	50 mm
Required spacing left	0 mm
Required spacing right	0 mm
Weight, approx.	1.15 kg
Product property of the enclosure housing for side-by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
Mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20

