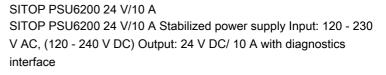
Data sheet





Input	
Input	1-phase AC or DC
Rated voltage value Vin rated	120 230 V
Voltage range AC	85 264 V
Supply voltage	
• at DC	110 240 V
Input voltage	
• at DC	85 275 V
Wide-range input	Yes
Overvoltage resistance	300 V AC for 30 s
Mains buffering	at Vin = 230 V
Mains buffering at lout rated, min.	45 ms; at Vin = 230 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
Input current	
 at rated input voltage 120 V 	2.2 A
 at rated input voltage 230 V 	1.2 A
Switch-on current limiting (+25 °C), max.	6 A

Built-in incoming fuse	5 A
Output	
Output	Controlled, isolated DC voltage
Number of outputs	1
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	30 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	30 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
Adjustment range	24 28 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 240 W (288 W up to 45°C)
Status display	Green LED for 24 V OK
Signaling	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for 24 V O.K. or diagnostic interface
On/off behavior	Overshoot of Vout < 2 %
Startup delay, max.	0.5 s
Voltage rise, typ.	200 ms
Rated current value lout rated	10 A
Current range	0 10 A
Note	12 A up to +45°C; +60 +70 °C: Derating 2%/K
Supplied active power typical	240 W
Short-term overload current	
on short-circuiting during the start-up typical	12 A
at short-circuit during operation typical	12 A
Product feature parallel switching of outputs	can be set with DIP switch
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	92.8 %
Power loss at Vout rated, lout rated, approx.	18 W
Power loss [W] during no-load operation maximum	2.2 W
Closed-loop control	
Dynamic load smoothing (lout: 10/90/10 %), Uout ±	2 %
typ.	
Load step setting time 10 to 90%, typ.	2 ms
Load step setting time 90 to 10%, typ.	2 ms
Setting time maximum	3 ms

Protection and monitoring		
Output overvoltage protection	< 32 V	
Current limitation, typ.	12 A	
Property of the output Short-circuit proof	Yes	
Short-circuit protection	Shutdown and periodic restart attempts	
Overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min	
Safety		
Primary/secondary isolation	Yes	
Galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1	
Protection class	Class I	
Leakage current		
• maximum	3.5 mA	
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; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
Explosion protection		
FM approval	-	
CB approval	Yes	
Regulatory Compliance Mark (RCM)	No	
Marine approval	in process: DNV GL, ABS	
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 +70 °C	
— Note	operating range with natural convection -40 °C 70 °C, in the range of -25 °C 0 °C monotonous ramp up of the output voltage	
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	Push-in terminals	
Connections		
Supply input	L1/+, L2/N/-; PE PushIn for 0.5 4 mm² single-core/finely stranded	
Output	+1, +2, -1, -2, -3: PushIn for 0.5 2.5 mm²	

Width of the enclosure 45 mm Height of the enclosure 135 mm Depth of the enclosure 125 mm	
Depth of the enclosure 125 mm	
The state of the s	
Required spacing	
● top 45 mm	
• bottom 45 mm	
• left 0 mm	
• right 0 mm	
Product feature of the enclosure housing for side-by-	
side mounting	
Installation Snaps onto DIN rail EN 60	715 35x7.5/15
Electrical accessories Buffer module, redundance	y module
Mechanical accessories Identification labels SIMAT	TIC ET 200SP 6ES7193-6LF30-0AW0
Other information Specifications at rated input	ut voltage and ambient temperature +25
°C (unless otherwise speci	ified)