SIEMENS

Product data sheet 6EP1353-2BA00

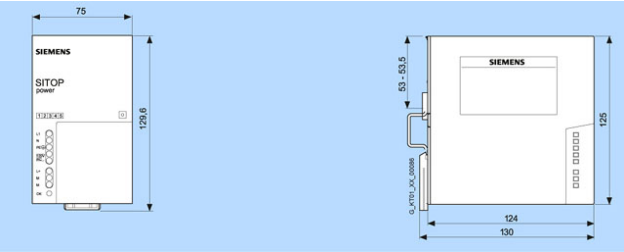
SITOP POWER FLEXI STABILIZED POWER SUPPLY
INPUT: 120-230 V AC OUTPUT: 3-52 V DC / 10 A,
120 W

Technical specifications	
Product	SITOP flexi
Power supply, type	3 ... 52 V/10 A
Input	
Input	1-phase AC
Supply voltage / 1 / at AC / nominal value	120 V
Supply voltage / 2 / at AC / nominal value	230 V
Rated voltage value Vin rated	120 … 230 V
Voltage range	
• Note	Set via wire jumper
Input voltage / 1 / at AC	85 … 132 V
Input voltage / 2 / at AC	170 … 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at Iout rated, min.	10 ms
Mains buffering	at Pout = 120 W and Vin = 93/187 V
Rated line frequency	50 / 60 Hz
Rated line range	63 ... 47 Hz
Input current / at nominal level of the input voltage 120 V	2.2 A
Input current / at nominal level of the input voltage 230 V	0.9 A
Switch-on current limiting (+25 °C), max.	32 A

I^2t, max.	0.8 $A^2 \cdot s$
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A, characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Output voltage	3-52 V DC
Total tolerance, static ±	1 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Voltage compensation / per sense line	0.5 V
Residual ripple peak-peak, max.	50 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	80 mV
Adjustment range	3 … 52 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer or analog current voltage signal 0 ... 2.5 V
Status display	Green LED for 24 V OK
Signaling	Power-Good via relay contact, current monitor signal 0 … 2.5 V
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	3 s
Voltage rise, typ.	80 ms
Rated current value Iout rated	10 A
Output current	2 … 10 A
Current range	0 … 10 A
• Note	max. 120 W
delivered active power / typ.	120 W
constant overload current / at short-circuit during run-up / typical	10 A
constant overload current / at short-circuit during operation / typical	10 A
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	84 %
Power loss at Vout rated, Iout rated, approx.	23 W
Closed-loop control	
Protection and monitoring	
Output overvoltage protection	according to EN 60950
Current limitation	2 … 10 A

Design of the current limitation	2 ... 10 A, adjustable using potentiometer or analog control voltage signal 0 ... 2.5 V
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Electronic current limiting (2 ... 10 A) in the range 3 ... 12 V or power limiting (120 W) in the range 12 ... 52 V
Enduring short circuit current / Effective level / typical	
• Note	According to the adjusted current regulation 2 ... 10 A
Overload/short-circuit indicator	Red LED for current or power limiting
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
Explosion protection	-
FM approval	-
CB approval	No
Verification of suitability / C-Tick	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 / in operation	0 … 60 °C
• Note	with natural convection
Ambient temparature / on transport	-40 … +85 °C
Ambient temparature / in storage	-40 … +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	
Connection technology	screw-type terminals
Connections / Supply input	L1, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
Connections / Output	L+: 1 screw terminal for 0.5 ... 2.5 mm²; M: 2 screw terminals for 0.5 ... 2.5 mm²
Connections / Auxiliary	Alarm signals, control inputs: 1 screw terminal each for 0.14 ... 1.5 mm²

Width / of the housing	75 mm
Height / of the housing	125 mm
Depth / of the housing	125 mm
Installation width	75 mm
Mounting height	225 mm
Weight, approx.	0.9 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of fixing / cap rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Mean time between failure (MTBF) / at 40 °C	1196172 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



letzte Änderung: Sep 10, 2012