■ *Main Features*

- High efficiency and compact size
- Active PFC
- Wide input voltage range 170…550Vac
- Wide output voltage range 36…205Vdc, user settable
- 2 user programmable voltage steps with settable duration
- Digital Power regulation
- Remote ON/OFF or other remote control functions possible through ENABLE input
- Multiple protections
- Ideal for elevator application
- Excellent versatility, allowing parts stock savings
- Up to 50°C operating temperature with no derating

TECHNICAL DATA

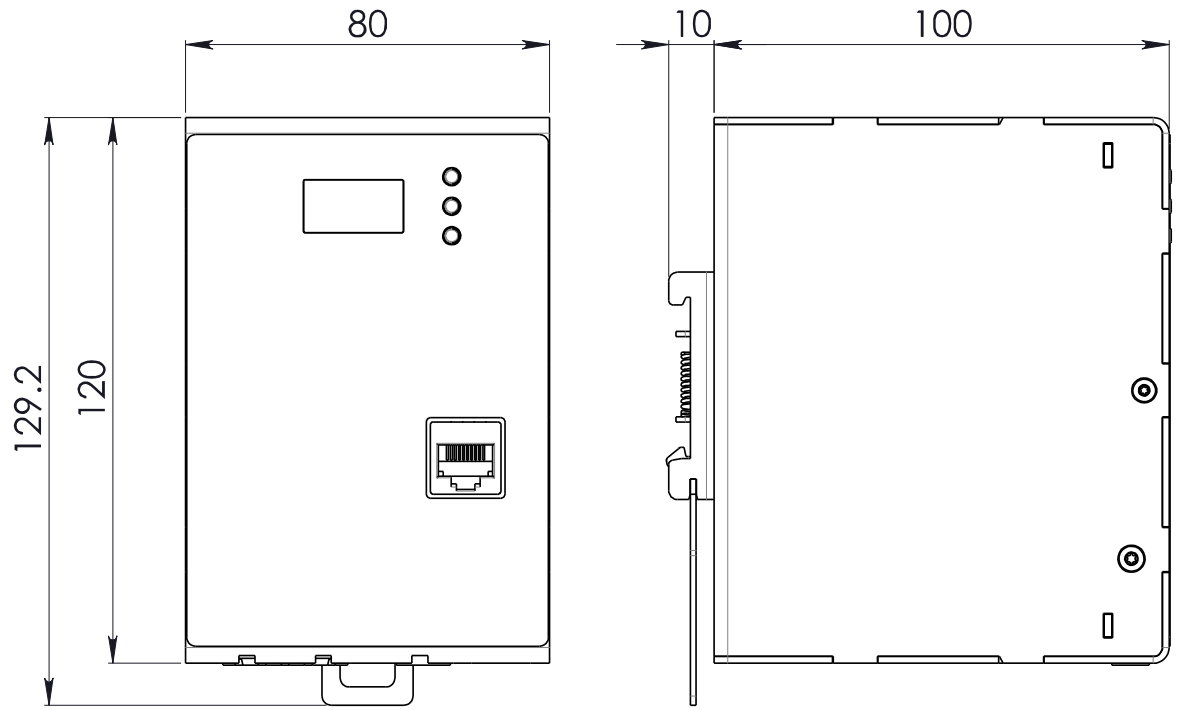
Model type	SBP200
OUTPUT DATA	
Rated voltage	36…205Vdc
Adj. output voltage range	36…205Vdc (1V resolution programmable)
Continuous current	2.3A Max. or Vout x Iout= 187W Max. for Vout > 80Vdc
Overload limit	2.4A
Short circuit peak current	2.5A
Load regulation	≤ 1%
Ripple & Noise[1]	≤ 600mVpp
Hold up time	≥ 30ms
Protections	▪ Overload and short circuit with constant current (3s) and one shot (no auto recovery) ▪ Thermal protection ▪ Input undervoltage lockout (UVLO) ▪ Input overvoltage protection (VDR)
Status Signals	▪ 7 segment, 3 digits display ▪ 3 programming keys ▪ **ENABLE** - Insulated remote ON/OFF input, active for 12…230Vac/dc
Parallel connection	Possible with external ORing module
INPUT DATA	
Input AC rated voltage[2] Frequency	Nominal: 1/2 phases 200…500Vac Range: 170…550Vac 47...63Hz
Input DC rated voltage	250...725Vdc
Input AC rated current Vin = 200Vac Vin = 500Vac	 1.4A 0.5A
Input DC rated current Vin = 250Vdc Vin = 725Vdc	 1.4A 0.7A
Standby power	< 6W
Power Factor Correction	Active > 0.9
Inrush peak current[3] / I^2t	≤ 40A / 0.69A^2s
Touch (leakage) current	≤ 0.3mA
Internal Protection fuse	None, external fuse must be provided
Recommended external protection	MCB 6A C or 4A D curve It is strongly recommended to provide external surge arresters (SPD) according to local regulations.
GENERAL DATA	
Efficiency	> 87%
Dissipated power	< 28W
Operating temperature[4]	- 40°C...+ 70°C
Derating	- 4.2W/°C over 50°C (do not exceed Vout x Iout= 100W Max. at 70°C)
Storage temperature	- 40°C...+ 80°C
Humidity	5…95% r.H. non condensing
Life time expectation	71'686h (8.1 years) at 25°C ambient full load
MTBF	▪ MIL-HDBK-217F > 500'000h at 25°C ambient full load
Overvoltage category Pollution degree	▪ EN50178 III ▪ IEC60664-1 2
Input / output isolation	4.2kVdc
Input / ground isolation	3.4kVdc
Input / ENABLE isolation	4.2kVdc
Output / ground isolation	1.65kVdc
Output / ENABLE isolation	4.2kVdc
ENABLE / ground isolation	4.2kVdc
Safety Standards	▪ UL508 (reference) ▪ IEC/EN61010-1 ▪ IEC/EN61010-2-201 ▪ IEC/EN60950 (certified)
EMC Emission	▪ EN55011 (CISPR11) Class A ▪ EN55022 (CISPR22) Class A ▪ EN12015 Class A ▪ EN61000-3-2 Class A
EMC Immunity	▪ EN61000-4-2 Level 3 ▪ EN61000-4-3 Level 3 ▪ EN61000-4-4 Level 3 ▪ EN61000-4-5 Level 4 ▪ EN61000-4-11 Level 2 ▪ EN12016
Protection degree	▪ EN60529 IP20
Vibration sinuosoidal	▪ IEC60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)
Shock	▪ IEC60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)
Connection terminals	2.5mm^2, screw type pluggable (24...12AWG)

Case material	Aluminum
Weight	0.75kg
Size (W x H x D)	80.0 x 120.0 x 100.0mm

1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.
2) CB Scheme certified up to 528Vac.
3) Peak current measured after 0.2ms from main connection; 400Vac/50Hz; Ambient temperature at 25°C; Cold Start.
4) Start-up type tested: - 40°C, possible at nominal voltage with load deration.

Notes:
- For more details, performance and descriptions regarding all parameters not indicated in the above table, please refer to the instruction manual downloadable from www.nextys.com
- Technical parameters are typical, measured in laboratory environment at 25°C and 400Vac / 50Hz, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.

DIMENSIONS



CONNECTION

Input Connection:

Single phase:
- L1 = Line
- N = Neutral
- ⏚ = Earth ground

2 phases:
- L1 = Phase 1
- L2 = Phase 2
- ⏚ = Earth ground

DC:
- L1 = + Positive DC
- L2 = - Negative DC
- ⏚ = Earth ground

ENABLE: (12…230Vac/dc)
- E+ = Positive DC
- E- = Negative DC

Output Connection:

- + = Positive DC
- - = Negative DC