

CB  
scheme

CE

✓RoHS  
2011/65/EU

## ■ Main Features

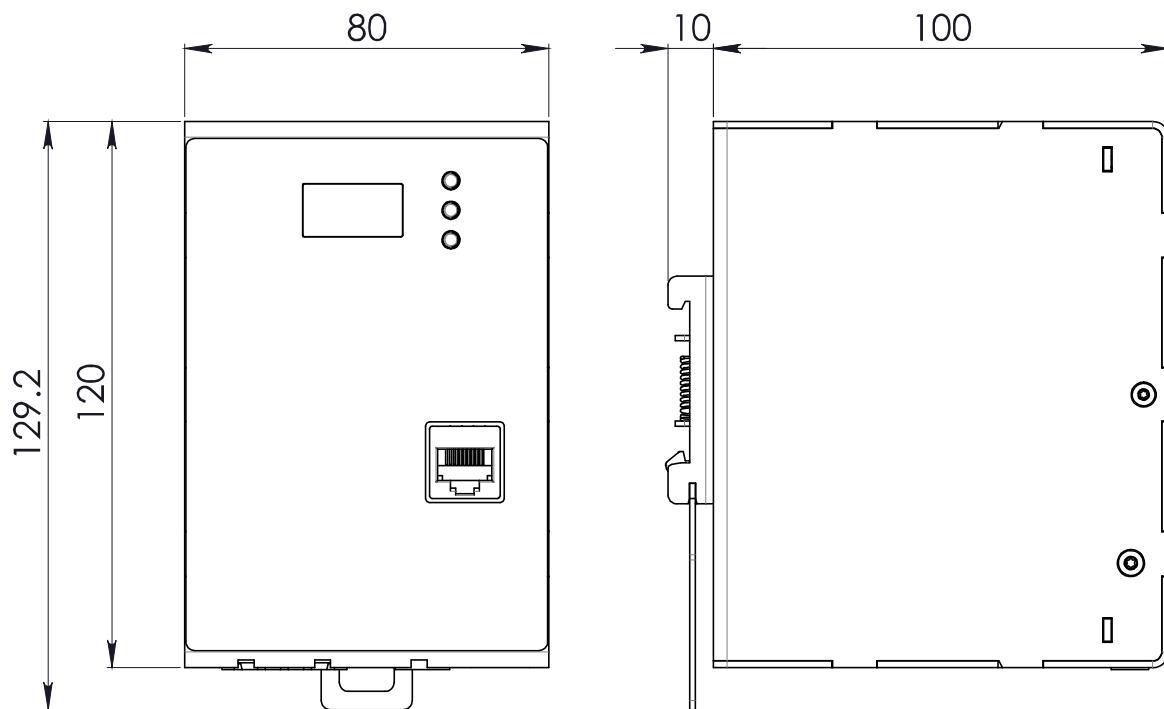
- ▀ High efficiency and compact size
- ▀ Active PFC
- ▀ Wide input voltage range 170...550Vac
- ▀ Wide output voltage range 36...205Vdc, user settable
- ▀ 2 user programmable voltage steps with settable duration
- ▀ Digital Power regulation
- ▀ Remote ON/OFF or other remote control functions possible 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	
<b>OUTPUT DATA</b>		
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 <sup>1</sup>	≤ 600mVpp	
Hold up time	≥ 30ms	
Protections	<ul style="list-style-type: none"> <li>▪ Overload and short circuit with constant current (3s) and one shot (no auto recovery)</li> <li>▪ Thermal protection</li> <li>▪ Input undervoltage lockout (UVLO)</li> <li>▪ Input overvoltage protection (VDR)</li> </ul>	
Status Signals	<ul style="list-style-type: none"> <li>▪ 7 segment, 3 digits display</li> <li>▪ 3 programming keys</li> <li>▪ <b>ENABLE</b> - Insulated remote ON/OFF input, active for 12...230Vac/dc</li> </ul>	
Parallel connection	Possible with external ORing module	
<b>INPUT DATA</b>		
Input AC rated voltage <sup>2</sup>	Nominal: 1/2 phases 200...500Vac Range: 170...550Vac 47...63Hz	
Frequency		
Input DC rated voltage	250...725Vdc	
Input AC rated current		
Vin = 200Vac	1.4A	
Vin = 500Vac	0.5A	
Input DC rated current		
Vin = 250Vdc	1.4A	
Vin = 725Vdc	0.7A	
Standby power	< 6W	
Power Factor Correction	Active > 0.9	
Inrush peak current <sup>3</sup> / I <sup>2</sup> t	≤ 40A / 0.69A <sup>2</sup> s	
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.	
<b>GENERAL DATA</b>		
Efficiency	> 87%	
Dissipated power	< 28W	
Operating temperature <sup>4</sup>	- 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	<ul style="list-style-type: none"> <li>▪ MIL-HDBK-217F &gt; 500'000h at 25°C ambient full load</li> </ul>	
Overvoltage category	<ul style="list-style-type: none"> <li>▪ EN50178 III</li> </ul>	
Pollution degree	<ul style="list-style-type: none"> <li>▪ IEC60664-1 2</li> </ul>	
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	<ul style="list-style-type: none"> <li>▪ UL508 (reference)</li> <li>▪ EN60950 (certified)</li> <li>▪ EN50178 (reference)</li> </ul>	
EMC Emission	<ul style="list-style-type: none"> <li>▪ EN55011 (CISPR11) Class A</li> <li>▪ EN55022 (CISPR22) Class A</li> <li>▪ EN12015 Class A</li> <li>▪ EN61000-3-2 Class A</li> </ul>	
EMC Immunity	<ul style="list-style-type: none"> <li>▪ EN61000-4-2 Level 3</li> <li>▪ EN61000-4-3 Level 3</li> <li>▪ EN61000-4-4 Level 3</li> <li>▪ EN61000-4-5 Level 4</li> <li>▪ EN61000-4-11 Level 2</li> <li>▪ EN12016</li> </ul>	
Protection degree	EN60529 IP20	
Vibration sinuosoïdal	(5-17.8Hz: ± 1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z))	
Shock	(30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)	
Connection terminals	2.5mm <sup>2</sup> , 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.	
<b>Notes:</b>	
- For more details, performance and descriptions regarding all parameters not indicated in the above table, please refer to the instruction manual downloadable from <a href="http://www.nextys.com">www.nextys.com</a>	
- 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  
 □ I = Earth ground

#### 2 phases:

- L1 = Phase 1  
 ■ L2 = Phase 2  
 ■ I = Earth ground

#### DC:

- L1 = + Positive DC  
 ■ L2 = - Negative DC  
 ■ I = Earth ground

#### Output Connection:

- + = Positive DC  
 ■ - = Negative DC

#### ENABLE: (12...230Vac/dc)

- E+ = Positive DC  
 ■ E- = Negative DC