









Main Features

- J High efficiency and compact size
- J Active PFC
-) Digital Power regulation
- J Wide input voltage range 170...550Vac
- / Wide output voltage range 24...120Vdc, user settable
- J User settable current limitation threshold
-) Remote ON/OFF or other remote control functions
- / Modbus over RS-485 interface for control and monitoring
-) Multiple protections
-) 2 user programmable voltage steps with settable duration
- / Can be used as battery charger (lead acid, nickel, lithium)
-) Can be used for LED lighting
- / Can be paralleled for power or redundancy (with external ORing Module)
-) Up to 50°C operating temperature with no derating
- J Suitable for **POWERMASTER** software (available for Windows and Android OS)
- *J* Excellent versatility, allowing parts stock savings



TECHNICAL DATA

Model type	SBP200L
OUTPUT DATA	
Rated voltage	24120Vdc
Adj. output voltage range	24120Vdc (1V resolution programmable)
Continuous current	4.0A @ 24Vdc, 3.0A @ 48Vdc, or Vout x lout= 200W Max. for Vout > 48Vdc
Overload limit	4.4A to 1.9A (depending on Vout)
Short circuit peak current	4.9A to 2.2A (depending on Vout)
Load regulation	≤ 1%
Ripple & Noise ¹	≤ 200mVpp
Hold up time	≥ 25ms
Battery charger function	C.C. / C.V. (setup via front panel or POWERMAGTER application)
	Lead Acid
Battery chemistries	Lithium
Protections	Overload and short circuit protection Thermal protection Input undervoltage lockout (UVLO) Input overvoltage protection (VDR) 7 segment, 3 digits display
Status Signals	S programming keys S programming keys ENABLE - isolated remote ON/OFF input, active for 530Vdc DC OK - dry contact (NO, 24Vdc / 1A) Modbus over RS-485 interface
Parallel connection	Possible for power and redundancy (with external ORing module)
INPUT DATA	
Input AC rated voltage Frequency	Nominal: 1/2 phases 200500Vac Range: 170550Vac 4763Hz
Input DC rated voltage	250725Vdc
Input AC rated current	
Vin = 200Vac	1.4A
Vin = 500Vac	0.5A
Input DC rated current	
Vin = 250Vdc	1.0A
Vin = 725Vdc	0.4A
Standby power	< 4W
Power Factor Correction	Active > 0.9
Inrush peak current	≤ 50A
Touch (leakage) current	≤ 0.4mA
Internal Protection fuse	None, external fuse must be provided
Recommended external protection	MCB 10A C curve
	It is strongly recommended to provide external surge arresters (SPD) according to local regulations.
GENERAL DATA	20/ 20/ (depending Vout)
Efficiency	> 82% > 90% (depending Vout)
Dissipated power	<21W - 40°C+ 70°C
Operating temperature ²	
Derating	Over 60Vdc: - 1.5W/°C over 50°C Under 60Vdc: - 3.0W/°C over 50°C See Fig.1
Storage temperature	- 40°C+ 80°C
Humidity	595% 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	EN50178 III
Pollution degree	 IEC60664-1 2
Input / output isolation	4.2kVdc
Input / ground isolation	2.2kVdc
Output / ground isolation	0.75kVdc
Safety Standards	UL508 (reference) EN60950 (reference) EN50178 (reference)
EMC Emission	EN55011 (CISPR11) Class A EN55022 (CISPR22) 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
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)
IN/OUT Connection terminals	2.5mm ² , screw type pluggable (2412AWG)
Auxiliary connection terminals	Up to 0. 5mm ² , Fast pluggable type (20AWG)
Communication interface connector	RS-485 through RJ45 Female

SBP200L



Case material	Aluminum
Weight	0.75kg
Size (W x H x D)	80.0 x 120.0 x 100.0mm
 Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1μF MKP parallel capacitor. Start-up type tested: - 40°C, possible at nominal voltage with load deration. 	

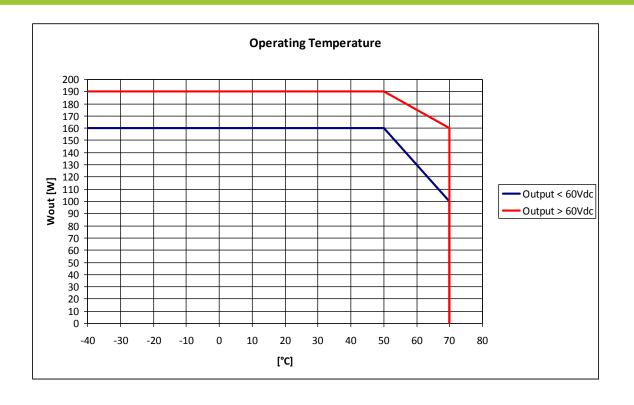
Notes:

- For more details, performance and descriptions regarding all parameters not indicated in the above table, please refer to the user 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.

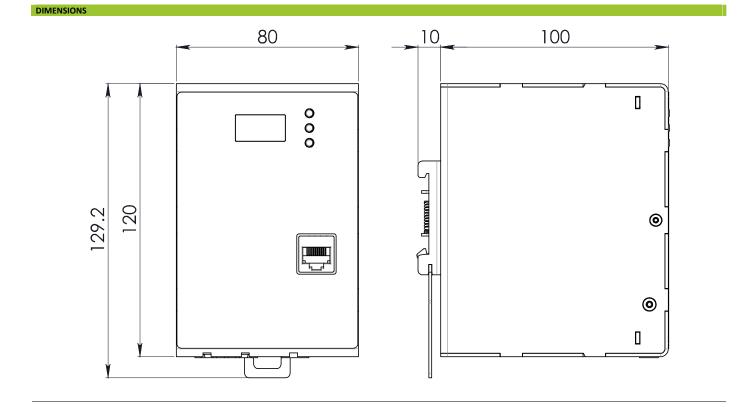
- Data may change without prior notice in order to improve the product.

Fig.1



SBP200L





CONNECTION

