## **CLASS B**



## **Features**

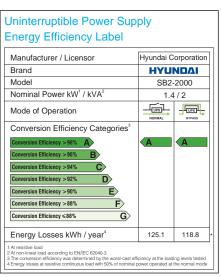
- High efficiency
- RFI / EMI filtering
- Vocal alarm (optional)
- GSM modem (optional)
- Pure sine wave output
- IEC 62040-3 compliant
- Remote LCD panels (optional)
- Power generator compatible
- User friendly informative LCD
- Heavy duty & high MTBF design
- Input high impedance protection

- Inverter / charger short circuit protection
- Fully digitized microprocessor controlled
- Hot swappable battery, replaceable by user
- UPS powers and transformers overheat protection
- LAN support and remote managed via SNMP (optional)
- Mains connection to UPS output (inverter) protection
- Two phase (400 V) connection to UPS input protection
- Battery over / under voltage and reverse polarity protection
- Protection against positive feedback (input to output connection)
- Adjustable charge current, input voltage & frequency by software
- SCM (Spot Charging Management) and Advanced Battery Management

This is by far one of the most equipped and resistant UPS of its kind in the world. It can be connected to almost any type of single phase load with minimum 17 years MTBF. Most customers connect this UPS at the output of their electricity meter and when they have refrigerators and evaporative coolers, rather than normal loads, in the circuit.

There are almost no inadequate loads for this UPS. The 48 V battery bus, not only observes the SELV standard but also increases reliability with a higher level of safe operating area.

The internal power parts of the B series with more than 2 KVA are designed as parallel redundant, so that in case of internal power problems, the output power reduces 1 or 2 KVA, instead of causing damages to the entire unit.



Energy losses for: SB3-1500: Normal mode: 93.79 kWhy; By-pass mode: 89.1 kWh SB3-2000: Normal mode: 125.1 kWhy; By-pass mode: 181.8 kWh SB2-2000: Normal mode: 187.7 kWhy; By-pass mode: 178.2 kWh SB2-5000: Normal mode: 312.8 kWhy; By-pass mode: 296.9 kWh

## **Applications**

Critical serversTelecom applications

Small networks
Critical IT applications

Home appliances
Small motorized systems

Security equipment
 Process automation and control equipment

## **Technical data sheet**

Model	SB3-1500	SB3-2000	SB2-2000	SB2-3000	SB2-5000	SB2-6000	Unit	
Power rating (W/VA)	1500/1050	1400/2000	1400/2000	2100/3000	3500/5000	4200/6000	W/VA	
Dimensions W*D*H	480*500*88.9 Rack-mounted 192*440*270 Tower Form 192*525*340 Tower Form					mm		
Weight (approx.)	23	27	24	30	39	45	kg	
Environmental								
Storage temperature	-20 to 70						°C	
Operating temperature	0 to 40						°C	
Altitude	<3000						m	
Relative humidity	0 to 95 Without condensation						%	
Degree of protection (IEC 60529)	20						IP	
Normal mode acoustic noise at 1.0 m	<50						dBA	
Stored energy mode acoustic noise at 1.0 m	<50						dBA	
Electrical input characteristics								
Nominal AC voltage	220/230						V r.m.s.	
Voltage range	170 to 255						V r.m.s.	
Maximum range (adjustable by front panel)	150 to 270							
Frequency range	47 to 53						Hz	
Phase	Single							
Electrical output characteristics								
Nominal AC voltage	220/230						V r.m.s.	
Voltage variation	0.5 (Free running) 7 (Synchronous with input)						%	
Nominal frequency	50						Hz	
Frequency variation	$\pm$ 0.01 (Free running) $\pm$ 0.5 to 3 (Normal mode, adjustable by front panel)						Hz	
Linear load total voltage distortion	< 3						% THD	
Non Linear load total voltage distortion	< 5						% THD	
Waveform	Sinusoidal							
Efficiency	>98						%	
Overload capability	150 @ Starting, 120 @ 80 sec.						%	
Transfer time	0.00						sec	
Battery characteristics								
DC voltage	48						V	
Туре	Sealed lead acid battery (maintenance free)							
Maximum charging current (adjustable by front panel)	6 8 12 20 24					А		
Communication interface								
Standard: Serial port (RS232) / Optional: SNMP adaptor, GSM modem, 8-channel free-contact relays								
Protections								
Battery over / under voltage and quantity	nd quantity Audible alarm and LCD display							
Battery disconnection	Audible alarm and LCD display							
Battery connection inrush current	With DC soft start							
Battery reverse polarity	Audible alarm and LCD display							
Mains connection to UPS output	Shutdown after audible alarm and LCD display							
Two phase (400 V) connection to UPS input	Audible alarm and LCD display							
Overload	Abutdown after audible alarm and LCD display							
Output short circuit	Antidown after audible alarm and LCD display  Ahutdown after audible alarm and LCD display							
Earth fault	Audible alarm and LCD display							
UPS powers and transformers overheat protecti								
Advanced Battery Management								
Input high Impedance protection								
Tel/Modem spike protection								
DC to AC galvanic isolation								
to Ao gaivanne isolation								