

CLASS A

- Small Size
- Passive Standby Operation
- Galvanic Isolation
- Buck and Boost Stabilizer
- Internal Battery





Features

- High efficiency
- RFI / EMI filtering
- Cold start function
- IEC 62040-3 compliant
- Wide input voltage range
- Lightning and surge protections
- Internal battery for consumption loads backup time
- SNMP management capability for SA3 models (optional)
- Overload / output short circuit / battery under voltage protection

A base UPS combined with a stabilizer in order to protect computer and accessories from disturbances. This UPS cannot support the required energy for many types of equipment; however the up-to-60-minute backup time it provides, for a PC or one LCD TV and a home theatre, covers most of the requirements. Naturally the backup time depends on the consumption mode; for example a SA2-1200 UPS can support a fax or a small central telephone for a minimum of 2 hours. A beep announces the status of the battery and remaining backup time.

Applications

- Workstations
- Standalone PCs
- Small security systems
- Central telephone systems
- LCD / LED TV and home theatres

Uninterruptible Power Supply Energy Efficiency Label																							
Manufacturer / Licensor	Hyundai Corporation																						
Brand	HYUNDAI																						
Model	SA2-600																						
Nominal Power kW ¹ / kVA ²	0.36 / 0.6																						
Mode of Operation	 NORMAL	 BYPASS																					
Conversion Efficiency Categories ³	<table border="1"> <tr> <td>Conversion Efficiency > 98%</td> <td>A</td> <td>A</td> </tr> <tr> <td>Conversion Efficiency > 96%</td> <td>B</td> <td>A</td> </tr> <tr> <td>Conversion Efficiency > 94%</td> <td>C</td> <td>A</td> </tr> <tr> <td>Conversion Efficiency > 92%</td> <td>D</td> <td>A</td> </tr> <tr> <td>Conversion Efficiency > 90%</td> <td>E</td> <td>A</td> </tr> <tr> <td>Conversion Efficiency > 88%</td> <td>F</td> <td>A</td> </tr> <tr> <td>Conversion Efficiency < 88%</td> <td>G</td> <td>A</td> </tr> </table>		Conversion Efficiency > 98%	A	A	Conversion Efficiency > 96%	B	A	Conversion Efficiency > 94%	C	A	Conversion Efficiency > 92%	D	A	Conversion Efficiency > 90%	E	A	Conversion Efficiency > 88%	F	A	Conversion Efficiency < 88%	G	A
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Energy Losses kWh / year ⁴	48.8	30.5																					

¹ At resistive load
² At non-linear load according to EN/IEC 62040-3
³ The conversion efficiency was determined by the worst-case efficiency at the loading levels tested
⁴ Energy losses at resistive continuous load with 50% of nominal power operated at the normal mode

* Energy losses for: SA2-1200 Normal mode: 97.5 kWh/y; By-pass mode: 61.1 kWh/y
SA3-600 Normal mode: 48.8 kWh/y; By-pass mode: 30.5 kWh/y
SA3-1200 Normal mode: 97.5 kWh/y; By-pass mode: 61.1 kWh/y

Technical data sheet

Model	SA2-1200	SA3-1200	SA2-600	SA3-600	Unit
Power rating (W/VA)	360/600		720/1200		W/VA
Dimensions W*D*H	100*340*150		125*340*190		mm
Weight (approx.)	6.5		11		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	<35				dBA
Acoustic noise at 1.0 m					
Stored energy mode	<40				dBA
Acoustic noise at 1.0 m					
Electrical input characteristics					
Nominal AC voltage	220/230				V r.m.s.
Voltage range	140 to 280				V r.m.s.
Frequency range	48 to 52				Hz
Phase	Single				
Electrical output characteristics					
Nominal AC voltage	220/230				V r.m.s.
Voltage variation	+10% , -15%				V r.m.s.
Nominal frequency	50				Hz
Frequency variation	48 to 52				Hz
Waveform	Semi-sine wave				
Efficiency	>97				%
Overload capability	150 @ Starting, 120 @ 6 sec.				%
Transfer time	<10				ms
Battery characteristics					
Internal battery rating and quantity	1*12V/7.2 Ah		2*12V/7.2Ah		
Type	Sealed lead acid battery (maintenance free)				
Maximum charging current	0.7				A
Monitoring and Alarms					
Front panel monitoring type	LED	LCD	LED	LCD	
PC Communication	-	RS-232	-	RS-232	
Periodic audible alarm	Buzzer	* Buzzer	Buzzer	* Buzzer	* With manual disabling key
Protections					
<ul style="list-style-type: none"> Battery under voltage Overload Output short circuit 					