

# CLASS C - Small Size

- Cost Effective
- Long Backup Time
- Double-conversion
- Rack-mount and Tower Form



## Features

- Cold start function
- IGBT inverter design
- Pure sine wave output
- IEC 62040-3 compliant
- Wide input voltage range
- Automatic internal by-pass
- Input power factor correction
- User friendly, informative LCD
- Excellent electrical performance
- Unstable power generator compatible
- Fully digitized microprocessor control
- LAN support and remote managed via SNMP (optional)
- Battery under voltage / Overload / Output short circuit / UPS powers overheat protections

Galvanic isolation withdrawal causes remarkable reduction in weight. It should be noted that in all models of economic double-conversion UPS, ventilation fans run continuously, making noise. Therefore, before selecting economic double-conversion UPS, one should carefully consider the installation emplacement and its distance from the user.

## Applications

- Office servers
- IT applications
- Small networks
- Security equipment
- Telecom applications
- High capacity PCs and workstations
- Process automation and control equipment

Uninterruptible Power Supply Energy Efficiency Label		
Manufacturer / Licensor	Hyundai Corporation	
Brand	<b>HYUNDAI</b>	
Model	SC5-1000	
Nominal Power kW <sup>1</sup> / kVA <sup>2</sup>	0.7/1	
Mode of Operation		
Conversion Efficiency Categories <sup>3</sup>		
Conversion Efficiency > 98% <b>A</b>		<b>A</b>
Conversion Efficiency > 96% <b>B</b>		
Conversion Efficiency > 94% <b>C</b>		
Conversion Efficiency > 92% <b>D</b>		
Conversion Efficiency > 90% <b>E</b>		
Conversion Efficiency > 88% <b>F</b>	<b>F</b>	
Conversion Efficiency ≤ 88% <b>G</b>		
Energy Losses kWh / year <sup>4</sup>	418.1	59.4

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: SC3-1000 Normal mode: 418.1 kWh/y; By-pass mode: 59.4 kWh/y  
 SC3-2000 Normal mode: 836.2 kWh/y; By-pass mode: 118.8 kWh/y  
 SC3-3000 Normal mode: 1254.3 kWh/y; By-pass mode: 178.1 kWh/y  
 SC5-2000 Normal mode: 836.2 kWh/y; By-pass mode: 118.8 kWh/y  
 SC5-3000 Normal mode: 1254.3 kWh/y; By-pass mode: 178.1 kWh/y

## Technical data sheet

Model	SC3-1000	SC3-2000	SC3-3000	SC5-1000	SC5-2000	SC5-3000	Unit
Power rating (W/VA)	700/1000	1400/2000	2100/3000	700/1000	1400/2000	2100/3000	W/VA
Dimensions W*D*H	480*450*88.9 Rack-mounted			145*405*220 Tower Form	192*465*345 Tower Form		mm kg
Weight (approx.)	9.5	11.5	12	6.7	14	15	
<b>Environmental</b>							
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 m)	<50	<55		<50	<55		dBA
Battery mode acoustic noise (1 m)	<50	<55		<50	<55		dBA
<b>Electrical input characteristics</b>							
Nominal AC voltage	220/230						V r.m.s.
Voltage range	140 to 275	176 to 275		140 to 275	176 to 275		V r.m.s.
Frequency range	46.5 TO 55						Hz
Input current distortion at rated input current	<10						% THD
Input power factor	>0.97						
Phase	Single						
<b>Electrical output characteristics</b>							
Nominal AC voltage	220/230						V r.m.s.
Voltage variation	2.20						V r.m.s.
Nominal frequency	50						Hz
Frequency variation	0.1						Hz
Linear load total voltage distortion	< 3						% THD
Non Linear load total voltage distortion	< 5						% THD
Waveform	Sinusoidal						
Efficiency	>88						%
Overload capability	150 @ Starting, 120 @ 30 sec.						%
Transfer time	No break						
<b>Battery characteristics</b>							
DC voltage	36	96		36	96		V
Type	Sealed lead acid battery (maintenance free)						
Maximum charging current	4 - 10						A
<b>Automatic by-pass characteristics</b>							
Continues current	5	10	15	5	10	15	A
Transfer profile	IEC 475/99						
Circuit breaker current rating	7.0	10	16	7.0	10	16	A
<b>Protection</b>							
Battery under voltage							
Overload							
Output short circuit							
UPS powers overheat protection							