

CLASS C - Medium Size

- Long Backup Time
- Double-conversion
- Rack-mount and Tower form
- Single and Three Phase Input





Features

- Cold start function
- IGBT inverter design
- Pure sine wave output
- IEC 62040-3 compliant
- Automatic internal by-pass
- Input power factor correction
- User friendly informative LCD
- Excellent electrical performance
- Unstable power generator compatible
- Fully digitized microprocessor control
- Available in 1ph:1ph & 3ph:1ph design
- Parallel load sharing and redundancy capability
- LAN support and remote managed via SNMP (optional)
- Battery under voltage, overload, output short circuit and UPS powers overheat protections

Low weight and volume, various functions and capability of being connected in parallel, make this UPS a perfect choice for your office. Advanced optional efficiency optimizer can give you more than 98% of efficiency when the mains is stable. Till now, the general approach of existing equipment that, in stable conditions of the mains electricity, aimed to increase the efficiency of UPS has consisted in transforming a double-conversion UPS into a passive-standby operation (off-line) UPS. For the first time, we offer an optional efficiency optimizer, based on rapid-switching circuits and voltage-stabilizer, that, in the same stable conditions, transforms the UPS, instead of passive-standby operation (off-line), into a UPS with a line-interactive performance.

Applications

- Banking
- Networks
- Data centers
- Server farms
- Server rooms
- Medium offices
- Internet service providers
- Telecommunication applications
- Process automation and control equipment

Uninterruptible Power Supply Energy Efficiency Label																
Manufacturer / Licensor	Hyundai Corporation															
Brand	HYUNDAI															
Model	SC5-1030															
Nominal Power kW ¹ / kVA ²	7/10															
Mode of Operation	 NORMAL	 BYPASS														
Conversion Efficiency Categories ³	<table border="1"> <tr> <td>Conversion Efficiency > 98% A</td> <td>A</td> </tr> <tr> <td>Conversion Efficiency > 96% B</td> <td></td> </tr> <tr> <td>Conversion Efficiency > 94% C</td> <td></td> </tr> <tr> <td>Conversion Efficiency > 92% D</td> <td></td> </tr> <tr> <td>Conversion Efficiency > 90% E</td> <td>E</td> </tr> <tr> <td>Conversion Efficiency > 88% F</td> <td></td> </tr> <tr> <td>Conversion Efficiency ≤ 88% G</td> <td></td> </tr> </table>		Conversion Efficiency > 98% A	A	Conversion Efficiency > 96% B		Conversion Efficiency > 94% C		Conversion Efficiency > 92% D		Conversion Efficiency > 90% E	E	Conversion Efficiency > 88% F		Conversion Efficiency ≤ 88% G	
Conversion Efficiency > 98% A	A															
Conversion Efficiency > 96% B																
Conversion Efficiency > 94% C																
Conversion Efficiency > 92% D																
Conversion Efficiency > 90% E	E															
Conversion Efficiency > 88% F																
Conversion Efficiency ≤ 88% G																
Energy Losses kWh / year ⁴	3407	594														
<small>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</small>																

* Energy losses for: SC5-1530 Normal mode: 5110 kWh/y; By-pass mode: 891 kWh/y
 SC5-2030 Normal mode: 6813 kWh/y; By-pass mode: 1188 kWh/y
 SC3-0611 Normal mode: 2044 kWh/y; By-pass mode: 356 kWh/y
 SC3-0611 Normal mode: 2044 kWh/y; By-pass mode: 356 kWh/y
 SC3-1011 Normal mode: 3407 kWh/y; By-pass mode: 594 kWh/y
 SC5-1011 Normal mode: 3407 kWh/y; By-pass mode: 594 kWh/y

Technical data sheet

Construction									
Model catalogue reference	SC3-0611	SC3-1011	SC5-0611	SC5-1011	SC5-1030	SC5-1530	SC5-2030	Unit	
Model rating	4.2/6	7/10	4.2/6	7/10		10.5/15	14/20	KW/KVA	
Dimensions W*D*H	440*656*176		260*580*720			192*465*345		mm	
	Rack-mounted		Tower Form			Tower Form			
Weight (approx.)	22	23	35	37	40	60	62	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	<55							dBA (1 meter)	
Stored energy mode acoustic noise	<55							dBA (1 meter)	
Electrical input characteristics									
Rated input voltage	176 to 275				304 to 480			V	
Rated input frequency	50/60								Hz
Input frequency tolerance	±3								Hz
Rated input current	24	30	24	30	13	19	26	A r.m.s.	
Maximum continuous input current	40	50	40	50	16	24	32	A r.m.s.	
Input THDI at rated load	<10							% THD	
Input power factor	>0.97								
Number of input phases	Single				Three			Phase (s)	
Output waveform									
Normal mode waveform	Sinusoidal								
Stored energy mode waveform	Sinusoidal								
Transfer normal mode/stored energy	No break								
Electrical output characteristics - static characteristics - normal mode									
Rated output voltage	220/230							V r.m.s.	
Output voltage variation	±2.20							V r.m.s.	
Nominal output frequency	50/60							Hz	
Synchronized output frequency	50/60 ±3							Hz	
Synchronized phase error	<6							degrees	
Rated output apparent power	6000	10000	6000	10000	10000	15000	20000	VA	
Linear load rated active power	4200	7000	4200	7000	7000	10500	14000	W	
Non-linear load rated active power	4200	7000	4200	7000	7000	10500	14000	W	
Linear load voltage distortion	<3							%THD	
Non-linear load voltage distortion	<5							%THD	
Output short circuit current capability	150							%	
Starting overload capability	150							%	
10 min overload capability	120 After 10 min, switches to by-pass mode							%	
Range of load power factor permitted	0.55 lead to 0.9 lag								
Number of output phases	Single							Phase	
Electrical output characteristics - dynamic characteristics - normal mode									
Mode changes voltage variation	0.00							%	
Load changes voltage variation	<10							%	

Technical data sheet (Continue)

Electrical output characteristics - static characteristics - stored energy mode								
Rated output voltage	220/230							V r.m.s.
Output voltage variation (+/-)	2.20							V r.m.s.
Rated peak output voltage	311/325							V
Rated peak output voltage variation	3.1							V
Output frequency	50/60 (Auto Sensing)							Hz
Output frequency variation (+/-)	0.1							Hz
Rated output apparent power	6000	10000	6000	10000	10000	15000	20000	VA
Linear load rated active power	4200	7000	4200	7000	7000	10500	14000	W
Non-linear load rated active power	4200	7000	4200	7000	7000	10500	14000	W
Linear load voltage distortion	<3							%THD
Non-linear load voltage distortion	<5							%THD
Output short circuit current capability	150							%
Starting overload capability	150							%
10 min overload capability	120 After 10 min, switches to by-pass mode							%
Range of load power factor permitted	From 0.55 lead to 0.9 lag							
Electrical output characteristics - dynamic characteristics - stored energy mode								
Mode changes voltage variation	0.00							%
Load changes voltage variation	<10							%
Efficiency								
Efficiency input/output	>90 (>98 in the optional efficiency optimizer mode)							%
Synchronization								
Range of frequency Synchronization	Synchronous with input in normal mode at 50/60 ± 3							Hz
Acceptable voltage difference	20							%
Maximum phase error	6							degree
Battery and charger characteristics								
DC voltage	240							VDC
Charging profile	Advanced IU plus WA characteristics							
Maximum charging current	5							A
By-pass characteristics								
By-pass continuous current	30	50	30	50	50	70	95	A r.m.s.
Transfer profile	IEC 475/99							
Electromagnetic compatibility								
Immunity & emission	IEC 62040-2							
Protections								
Battery under voltage								
Overload								
Output short circuit								
UPS powers overheat protection								
Parallel operation								
Parallel availability	Up to three load-shared redundant units							