



# Sirocco Series

## Online Double Conversion Technology

High Frequency 3-Phase  
10/20/30/40 KVA



SOHO



DATA CENTRE



E-MEDICAL



INDUSTRY



TRANSPORT



EMERGENCY



## Its smart appearance and excellent power to weight ratio make the Sirocco an ultimate H.F UPS

This series UPS is a kind of (three-in & out High Frequency H.F) Online Double Conversion Uninterruptible Power Supply, it can solve most of the power supply problems, such as:

- blackout
- under-voltage
- oscillating of decreasing extent
- voltage fluctuation
- inrush current
- noise interference
- over-voltage
- voltage sudden drop,
- high voltage pulse
- surge
- harmonic distortion (THD)
- frequency fluctuation

This UPS can be applied to different applications from computer device, automatic equipment, communication system to industrial equipment.

### Specifications

- Online Double Conversion
- Output Transfer Time: 0ms
- PFC technology
- Full Digital Control (DSP)
- Output Power Factor: 0.9
- Input current harmonic: 3%
- ECO function
- Charging/ Rectifier/ Inverter fully digital controlled technology
- Optimization battery group. Battery quantity: 16/ 20/ 32 or 60 units (optional)
- Wide Input Voltage Range: 208 - 478 Vac
- Wide Input Frequency Range: 46 - 66 Hz
- DC start
- Communication port: USB/ RS232/ RS485/ Parallel port/ Dry contact
- Options: SNMP card/ Relay card
- LCD & LED, double display
- Intelligent charging management
- EPO function
- Common battery group
- The output can meet 100% unbalanced load



ONLINE DOUBLE CONVERSION TECHNOLOGY



FULL DIGITAL CONTROL (DSP)



USB PLUG



HOT SWAP BATTERY



RS 232 plug



PLUG AND PLAY



LCD & LED DISPLAY



REMOTE CONTROL SOFTWARE

# Three-in & out High Frequency H.F Online Double Conversion Uninterruptible Power Supply



## 1 3 Phase In/3 Phase Out UPS



It is 3Phase In/3Phase Out high-density UPS system, of which input current is kept in balance without any unbalance problem to occur.

## 2 Digital Control



This UPS series is controlled by **Digital Signal Processor (DSP)**; hence increases reliability, performance, self-protection, and self-diagnostics...etc

## 3 Battery Configuration



**10-30 KVA:** from **20 blocks** to **60 blocks**.  
The battery voltage of this UPS series can be configured at 16 blocks to 30 blocks or above according to your convenience.

**40-60 KVA:** from **32 blocks** to **40 blocks**.

The battery voltage of this series UPS can be configured at 32 blocks, 34 blocks, 36 blocks, 38 blocks or 120 blocks according to your convenience.

## 4 UPS monitoring & Automatic shutdown software



The software is compatible with Novell Netware, Windows 2000/XP/Vista/7, Windows server 2003/2008/2012, Linux, FreeBSD and Mac.

Support SEC Protocol & USB Interface.

## 5 Intelligent port slots



The use of the SNMP agent and relay card makes it easier in management features such as:

- Setting up and programming extinctions
- Remotely control and monitor the UPS.

## 6 Eco function



Sirocco series ups has eco mode operation for energy saving.

In eco mode the UPS inverter operates in a "standby" mode. In principle, this is a simple change in the control software of the UPS

## 7 Intelligent Battery Charging Method



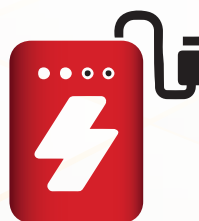
The series UPS adopts advanced three-stage charging method:

**1<sup>st</sup> stage:** High current constant current charging to guarantee to charge back to 90%.

**2<sup>nd</sup> stage:** Constant Voltage in order to vitalize battery and make sure batteries are fully charged.

**3<sup>rd</sup> stage:** Floating mode, with this 3-stage charging method, it extends the life of the batteries and guarantees fast charging.

## 8 Charging Current can be reconfigured



Via setting tool, the user may set the capacity of the batteries as well as reasonable charging current and maximum charging current. Constant voltage mode, constant current mode or floating mode can be switched automatically and smoothly.

## 9 LED indicators



With LCD plus LED displays, the user may easily get UPS status and its operational parameters, such as input/ output voltage, frequency & load%, battery % and ambient temperature, etc...









## 10 Emergency Power Off (EPO)











The Emergency Power Off (EPO) button, also called an EPO switch or EPO panel, is a safety measure for quickly disconnecting electrical power to a particular piece of equipment, or to an entire facility, in the event of an emergency.

# Sirocco 10 KVA



- ① Power ON/OFF button 
- ② Option button 
- ③ LCD screen 
- ④ Air vents 
- ⑤ RS 485 port 
- ⑥ Drycontact plug 
- ⑦ RS232 (male & female) Parallel connection 
- ⑧ USB port 





- ⑨ Emergency power off (EPO) 
- ⑩ Power button 
- ⑪ RS 232 plug 
- ⑫ Port intelligent slots (x2) 
- ⑬ Maintenance port 
- ⑭ Breaker (main) 
- ⑮ Breaker (output) 
- ⑯ Battery terminals 

# Specifications

DESCRIPTION	SIROCCO 10 KVA	SIROCCO 20 KVA	SIROCCO 30 KVA	SIROCCO 40 KVA
Capacity	9 000(W) POOIP1401	18 000(W) POOIP1402	27 000(W) POOIP1404	36 000(W) POOIP1409
<b>INPUT</b>				
Input phase	3 Phase 4 Wires and Ground			
Input rated voltage	380/ 400/ 415 Vac			
Input voltage range	~ 478 Vac (Auto-detect)			
Input frequency range	45 - 55 Hz at 50 Hz/ 54 - 66Hz at 60Hz (auto sensing)			
Input power factor	≥ 0.99			
Bypass voltage range	Max voltage: 220 Vac: + 25 % (optional + 10 %, + 15 %, + 20% )			
	230Vac: +20%(optional +10%,+15% )			
	240Vac: +15%(optional +10% )			
	Min voltage: - 45 % (optional – 10 %, - 20 %, - 30 %)			
	Frequency protection range: ±10%			
Current THDI	≤ 3% (100 % nonlinear load)			
Generator input	Supported			
<b>OUTPUT</b>				
Output phase	3 Phase 4 Wires and Ground			
Output rated voltage	380/ 400/ 415 Vac			
Output power factor	0.9			
Output voltage regulation	±1%			
Output frequency	Utility mode: ±1%, ±2%, ±4%, ±5%, ±10% of the rated frequency (optional)			
	Battery mode: (50/ 60 ± 0.2%) Hz			
CREST Factor	3:1			
THD	≤ 2 % with linear load			
	≤ 5% with non linear load			
<b>BATTERIES</b>				
Battery voltage	240V DC	480V DC	720V DC	960V DC
<b>FUNCTIONS</b>				
Transfer time	0 ms			
Charging current	1 to 4 A			
Overload protection batt. mode	Load ≤ 110%: last 10min, ≤ 125%: last 1min, ≤ 150%: last 5S, >150% shut down UPS immediately			
Short circuit	120A peak			164A peak (adjustable)
Overload protection AC mode	Load ≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min, >150% change to bypass immediately			
Overload protection bypass mode	20A breaker	40A breaker	63A breaker	80A breaker
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately			
Low batteries	Alarm and Switch off			
Self diagnostic	Upon Power On and Software Control			
EPO (optional)	Shut down UPS immediately			
Battery	Advanced Battery Management			
Noise suppression	Complies with EN62040-2			
Audible and visual alarms	Line Failure, Battery Low, Overload, System Fault			
Status LED and ICD display	Line mode, bypass mode, battery low, Battery Bad, overload and UPS fault			
Reading on the LCD	Input voltage, input frequency, output voltage, output frequency, load percentage, battery voltage and inner temperature			
Communication interface	USB, RS485, Parallel (optional), Coupler dry contact, Intelligent slot, SNMP card (optional), Relay card (optional)			
Operating temperature	0°C ~ 40°C			
Storage temperature	-25°C ~ 55°C			
Humidity	0 ~ 95% non condensing			
Altitude	< 1500m. When >1500m, lower the rated power for use			
Safety conformance	CE, EN/IEC 62040-2, EN/IEC 62040-1-1			



**Ipower International Ltd**

-  BPML Freeport Zone 6, Mer Rouge, Republic of Mauritius
-  +230 5 988 90 80 / +230 5 940 92 68
-  +230 5 956 33 00
-  sales@ipower.re / info@ipower.re
-  www.ipower.re

- Uninterruptible Power Supply (UPS)
- Automatic Voltage Regulator (AVR)
- Isolating Transformers Maintenance free
- 12VDC VRLA batteries manufacturer
- Distributor, installer & service provider

BRN: C15131905  
VAT: 27357325