

# SCALA

## Scala Core Standalone 3 Phase UPS



**Power protection with scalable back up time**

**+ Compact    + Reliable    + Efficient**

**Three Phase Online Double Conversion UPS  
Tower model 20 / 30 / 40 kVA**

## Scala Core

Ideal for small data centers, large retail stores, regional offices, and dense power requirements, the Scala Core by Scala Power Corporation offers you a high efficiency power protection with scalable runtime. Its compatibility with the market-leading remote management applications, coupled with an intuitive LCD user interface and LED status indicators, ensures the utmost availability for business-critical applications.

Reduced total cost of ownership, Scala Core intelligent design leads to a significant reduction of the total cost of ownership and makes it the ideal choice over time.

- Best-in-class efficiency even at low load levels minimizes energy losses and operating costs
- Compact, small footprint for floor space optimization
- Input power factor correction reduces installation costs

## Key feature and benefits

- High reliability:  
IGBT Technology in rectifier and inverter, high frequency PWM, transformerless, fully digital control with microprocessor, no break static and manual transferring
- 3 steps PWM IGBT Inverter ensures the best performance
- Wide input voltage and frequency range  
Compatible with different utility power source
- Cleaned source:  
Power factor correction close to unity power factor (pf 0.99) and low THDi (3%)
- Low noise levels:  
The high frequency PWM for rectifier and inverter allows very low audible noise
- Battery cold start  
Allows UPS to switch on without utility power
- Maximum scalability:  
Scala Core can work in parallel up to 8 units.
- High power availability:  
Output factor at 0.9 provides more active power than a traditional UPS and more load expansion
- Low management cost:  
The transformer less technology allows the lowest footprint in this category.
- Fully DSP control ensure highest reliability

## Technical Data Sheet

GENERAL			
Model	SCALACORE		
Description	Transformerless Online Double Conversion , Tower UPS		
RATING			
Part Number	SCALA CORE 20	SCALA CORE 30	SCALA CORE 40
Capacity	20kVA / 18kW	30kVA / 27kW	40kVA / 36kW
Max capacity	160kVA ( parallel 8 units )	240kVA ( parallel 8 units )	320kVA ( parallel 8 units )
Dimension ( WxDxH )	250 x 700 x 800 mm	250 x 700 x 800 mm	250 x 850 x 800 mm
Weight	50 kg	52 kg	62 kg
Display	LED , LCD Touch Screen , Keyboard		
INPUT			
Nominal Voltage	3 Phase + N + PE , 380V/400V/415V ( line to line )		
Voltage Range	304V - 478 V ( line to line )		
Frequency range	40 - 70 Hz		
Input power factor	> 0.99		
THDi	<3%		
OUTPUT			
Nominal Voltage	380V/400V/415V (line to line)		
Voltage regulation	±1.5%		
Voltage THD	THD<1% (linear load)		
Frequency	50 / 60 Hz ± 0.01%		
Power factor	0.9		
Overload	110% : 60min ; 125% : 10mins ; 150% : 1min ; 150% load : 1 min ; >150% : 200 ms		
BATTERY			
DC VOLTAGE	±240 VDC		
Charge power	20% of System Power		
Recommended	VRLA - AGM ( Maintenance Free )		
SYSTEM			
Total Efficiency	96% at Normal Mode, 98% at ECO Mode		
IP Class	IP20		
Operating condition	0 - 40 °C / 0 - 95% RH		
Noise	55 dB ( 1 m )		
Communication	RS232, RS485, Dry Contacts, SNMP Slot		
STANDARDS			
General safety	EN50091-1-1/IEC62040-1-1/AS 62040-1-1		
EMC	EN50091-2/IEC62040-2/AS 62040-2 (C3)		
Performance test	EN50091-3/IEC62040-3/AS 62040-3 (VFI SS 111)		

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**For Product Enquiry :**  
email to [info@scalapower.com](mailto:info@scalapower.com)

**Scala Power**  
653 Monument road  
Jacksonville, FL 32225  
Tel +1 16142092162

[www.scalapower.com](http://www.scalapower.com)