Scala Next Modular UPS Series



The Next Generation of Power Protection for Mission Critical Application

+Compact +Scalable +Hotswappable

Three Phase Online Double Conversion UPS 30 – 900 kVA

The Specialist of innovative UPS Design

Scala Power Corporation, a company specialist in power and energy recovery systems with many years of experience in providing high availability power solutions for unpredictable evolution in IT Infrastructure. Our manufacturer's expertise naturally extends to a continuous innovation for complete range of services designed to facilitate the research, implementation and operation of our solutions.

As an industry-leading UPS provider, we're constantly working to ensure that our service standards meet your needs precisely. The experience and know-how of our servicing resources provide a dedicated support package which helps to ensure your data center can maximize availability, keeping low cost and maintaining a flexible infrastructure.





The Scala Next by Scala Power Corporation is the innovative and reliable solution for protecting critical applications in computer rooms, data centers, banks, healthcare, facilities, insurance and telecom.

The Scala Next is a next generation of world-class, redundant, scalable, high-efficiency power protection systems for business high availability, cost effective and flexible response to unpredictable demands.

Seamlessly integrating into today's state-of-the-art data center designs, the Scala Next UPSs are true modular system, built from swappable— all engineered into a design that is easily and efficiently serviceable. This architecture can scale power and runtime as demand grows or as higher levels of availability are required.

Highly manageable, each Scala Next offer features selfdiagnostic capabilities and standardized modules that mitigate the risk of human error, resulting in increased overall data center reliability. Optional N+1 module-level redundancy further enhances power protection and peace of mind without increasing the footprint of your power protection solution.

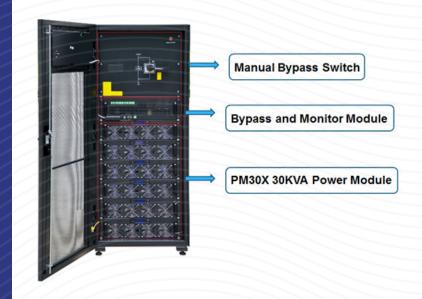
Scala Next delivers high availability, extreme agility, and low total cost of ownership in an aesthetic form factor. With industry-leading power density, the Scala Next has the ability to fit seamlessly onto the data center floor or into the back room.

Scala Next Modular UPS Series

Available Model

Scala Next 1830

Designed to house 6 power modules to reach maximum capacity of 180 kVA and expandable to 540kVA by connecting three frames in parallel





Scala Next 3030

Designed to house 10 power modules to reach maximum capacity of 300 kVA and expandable to 900kVA by connecting three frames in parallel



Main feature and benefits

TRUE MODULAR design

Power expansion simply by adding power module without any downtime and extra space

HOT SWAP design

Power module can be replaced or added while another module continues protecting the load.

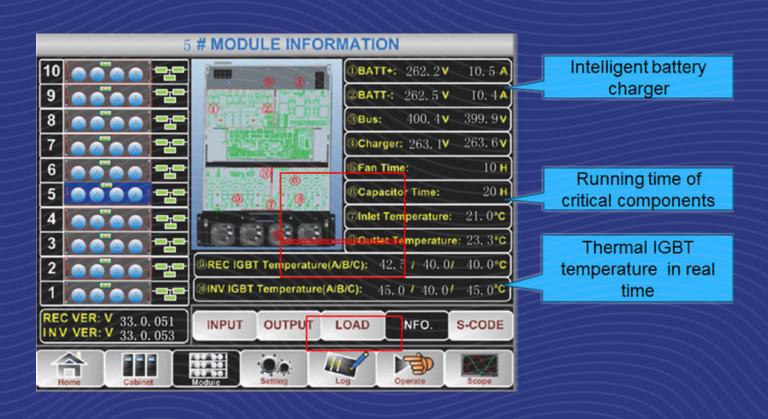
REDUNDANCY and CAPACITY

Power Frame can be paralleled for redundancy or expansion

Dual-mains input

Two separate power inputs for increased availability.





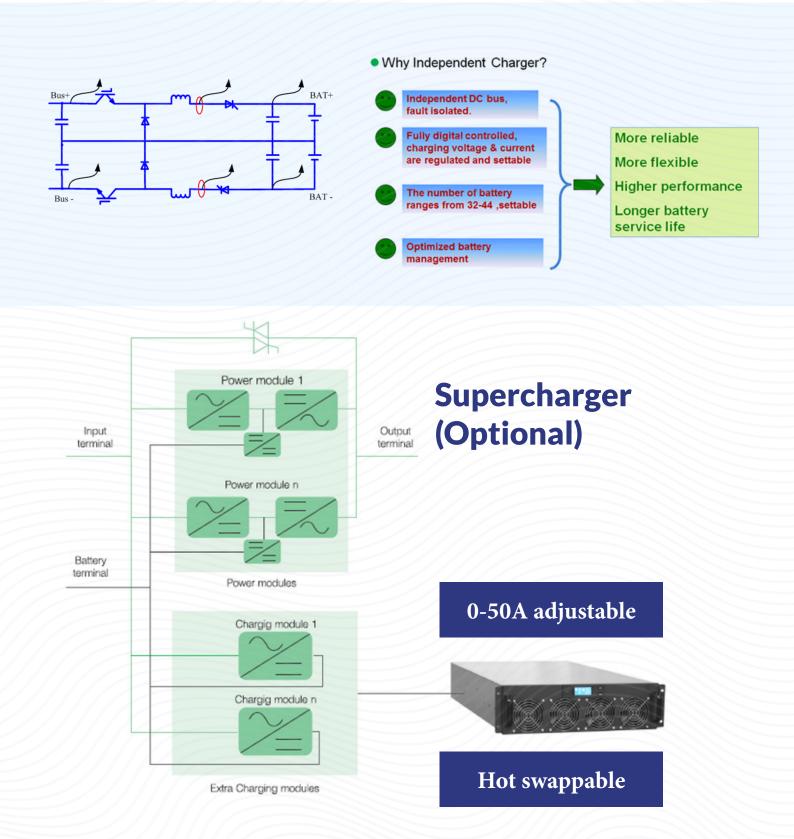
LED light and LCD touch screen

10.4" touch colorful LCD screen, Multi languages to select, 896 history logs. Password control at different levels to manage access of UPS configuration

Scala Next Modular UPS Series

Independent Charger

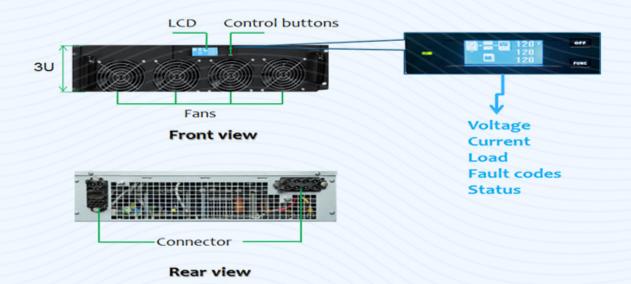
- Each Power has Independent Charger and full digital control
- Max Charger Current: 20%*Power, adjustable

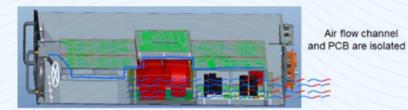




Power Module

Scala Next M30





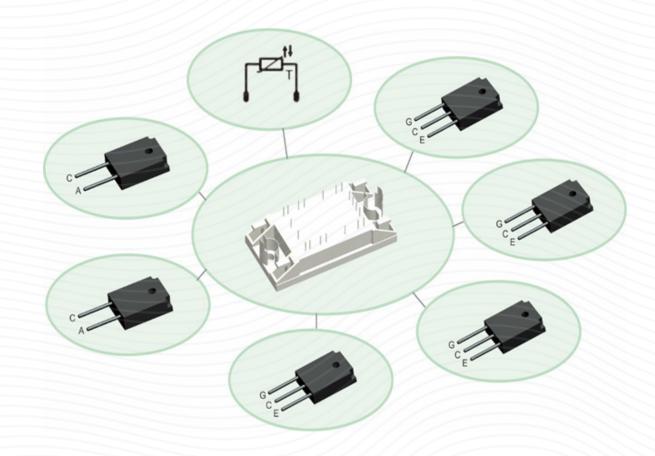


Keep PCB free of dust, Higher reliability Conformal Coating for Power and Control Boards



Modular IGBT design

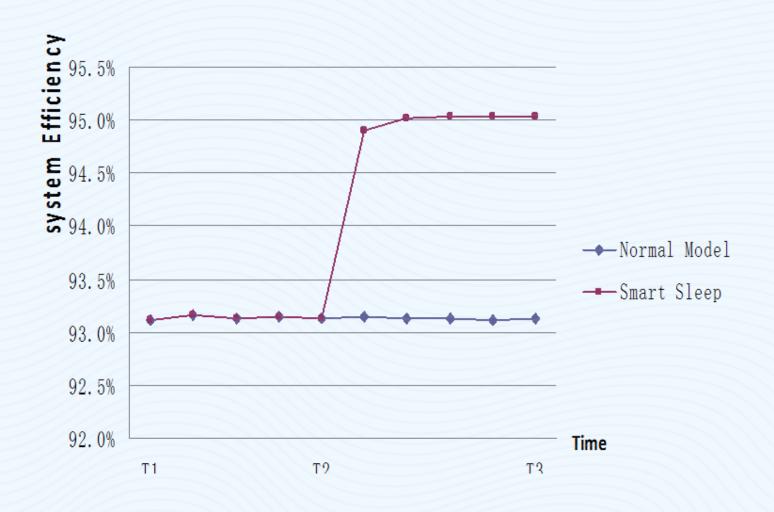
- IGBT Rectifier with PFC control to achieve input THDi <3% and input p.f is 0.99
- **IGBT Inverter** using 3 level IGBT power bridge technology with high frequency PWM modulation switching to perform high load factor and efficiency up to 96%.
- DOUBLE DSP PRECISION CONTROLLER for Rectifier, Inverter, Charger & Super Charger to achieve system stability, reliability and efficiency.



- One equals more
- Less fault points
- Smaller size
- Inner thermal sensor
- Higher reliability

Smart Sleep function

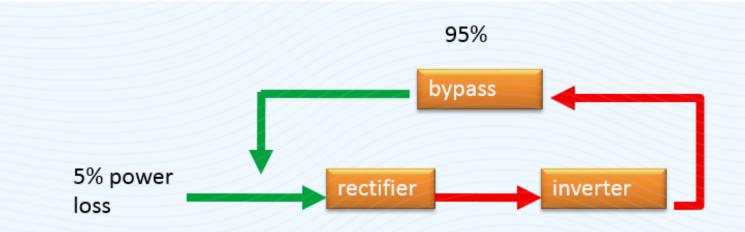
- Increase system efficiency when in low load
- Easy setting, friendly for customers
- Power modules working in rotation, prolong the total life time



Scala Next Modular UPS Series

Self-aging

- Simulate different load conditions without connecting to real load
- Energy-saving, saving 95% energy cost
- Support on-site setting and factory testing





Technical Data Sheet

GENERAL		
Model	SCALANEXT	
Description	Modular, Scalable, Swappable, Transformerless Online Double Conversion UPS	
CABINET FRAME	SCALANEXT 1830 SCALANEXT 3030	
Part Number Max capacity	SCALANEXT 1830 SCALANEXT 3030 180 kVA ; expandable to 540kVA (paralleling 3 units) 300 kVA ; expandable to 900kVA (paralleling 3 ur	nits)
Max # of modules/frame		
Dimension (WxDxH)	600 x 1100 x 1600 mm 600 x 1100 x 2000 mm	
Weight	165 kg 220 kg	
Display	10.4" touch colour LCD+LED+Keyboard	
POWER MODULE Part Number	SCALANEXT M30	
Capacity	30 kVA / 27 kW	
Dimension (WxDxH)	460 x 790 x 134 mm	
Weight	34	
MAIN INPUT		
Grid System	3 Phases + Neutral + Ground	
Rated Input Voltage	380/400/415VAC (Line-Line)	
Rated Frequency	50/60Hz	
Input Voltage Range	304~478Vac (Line-Line), full load;	
Input Frequency Range	228V~304Vac (Line-Line),load decrease linearly according to the min phase voltage 40Hz~70Hz	
Input Power Factor	B 0.99	
Input Current THDi	<3% (full Linear Load)	
BYPASS INPUT		
Rated Bypass Voltage	380/400/415VAC (Line-Line)	
Rated Frequency	50/60Hz	
Bypass Voltage Range	Selectable, default -20%~+15%	
	Upper limit: +10%, +15%, +20%, +25%; Lower limit: -10%, -15%, -20%, -30%, -40%	
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz	
Bypass Overload	110% Continuous; 110%~125% for 5min; 125%~150% for 1min;	
OUTPUT		
Rated Inverter Voltage	380/400/415VAC (Line-Line)	
Rated Frequency	50/60Hz	
Output Power Factor	0.9	
Voltage precision	±1.5%(0-100% linear load)	
Transient Response	<5% for step load (20% - 80% -20%)	
Transient recovery	< 30ms for step load (20% - 100% -20%)	
Output Voltage THDu	<1% (linear load)	
Inverter Overload	110%, 60min; 125%,10min; 150%,1min; >150%,200ms	
Frequency Regulation	50/60Hz±0.1%	
Synchronized Range	Settable, ±0.5Hz ~ ±5Hz, default ±3Hz	
	Settable, 0.5Hz/s~ 3Hz/s, default 0.5Hz/s	
Synchronized Slew Rate		
BATTERY AND CHARGER		
Battery Rate Voltage	±240VDC	
Charger Voltage precision	1%	
Charger Power	max > 20% * total power	
EFFICIENCY		
Normal Operation	>95%	
Battery Operation	>95%	
ECO Opetation	>99%	
SYSTEM		
	Current anno 50 A	
Optional	Supercharger 50A	
Interface	Standard:RS232, RS485, USB,Dry Contact; ,SNMP Card	
ENVIRONMENTAL		
Operation Temperature	0 ~ 40	
Storage Temperature	-40 ~ 70	
Relative Humidity	0 \sim 95% (Non condensing)	
Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load	
STANDARDS		
General safety	EN50091-1/ IEC62040-1-1 / AS62040-1	
EMC	EN50091-2 / IEC62040-2 (C3) / AS62040-2	
Performance test	EN50091-3 / IEC62040-3 /AS62040-3(VFI SS111)	

For Product Enquiry : email to info@scalapower.com

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