SCALA



The Next Generation of Power Protection for Mission Critical Application

+ Compact + Scalable + Hot swappable

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.







Scala Next

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 self-diagnostic 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.

Available Model

Scala Next 1830

Scala Next 1830 maximum power 162kW / cabinet

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 1830U

Scala Next 1830U maximum power 180kW / cabinet

Each Frame delivers Unity Power Factor (pF=1) to provide full capacity of 180kW with 6 power modules and 540kW by parallel three frames





Scala Next 3030

Scala Next 3030 maximum power 270kW/cabinet

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

Scala Next 3030U

Scala Next 3030U maximum power 300kW/cabinet

Each Frame delivers Unity Power Factor (pF=1) to provide full capacity of 300kW with 10 power modules and 900kW by parallel three frames

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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.

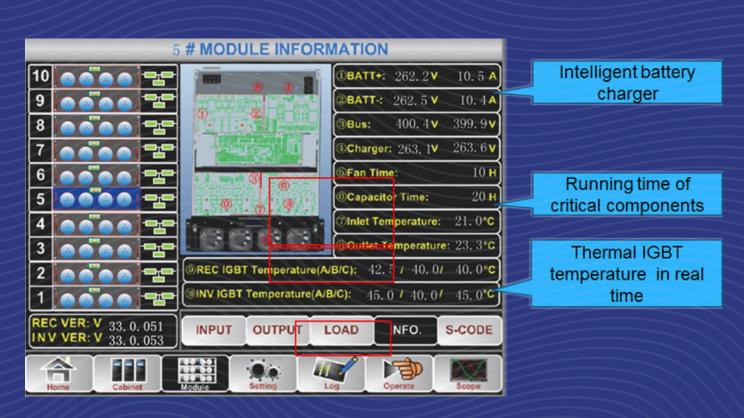
REDUNDANCY and CAPACITY

Power Frame can be paralleled for redundancy or expansion

Dual-mains input

Two separate power inputs for increased availability.





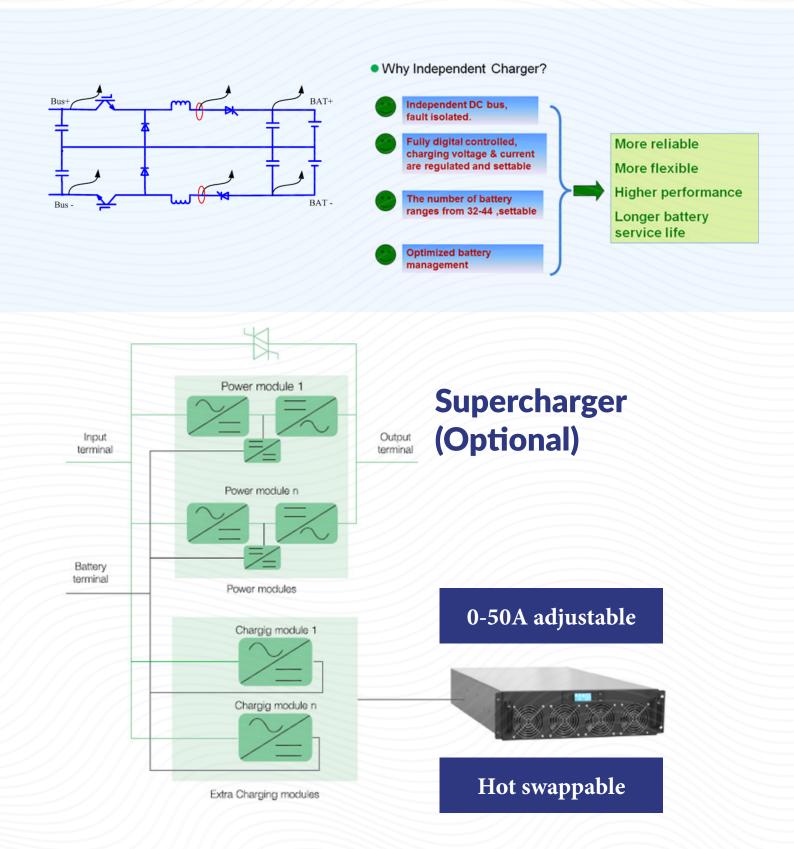
LED light and LCD touch screen

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

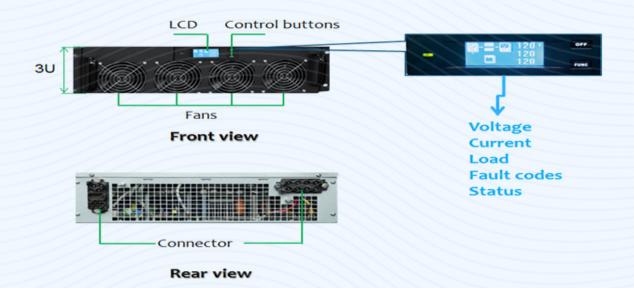
- Each Power has Independent Charger and full digital control
- Max Charger Current: 20%*Power, adjustable





Power Module

Scala Next M30 : 30kVA / 27kW (for Frame 1830 and 3030) Scala Next M30U : 30kVA / 30kW (for Frame 1830U & 3030U)









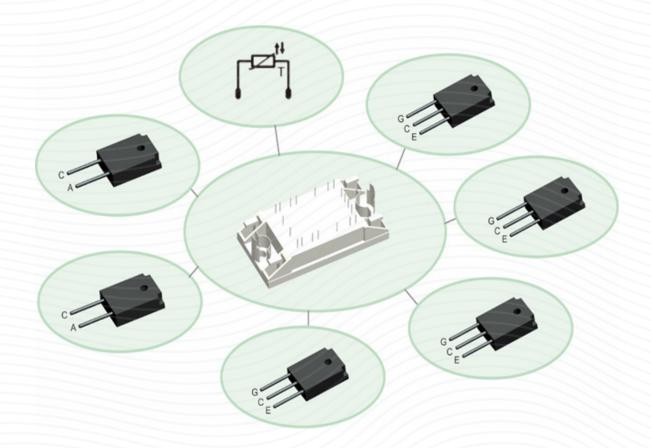
Keep PCB free of dust, Higher reliability

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.

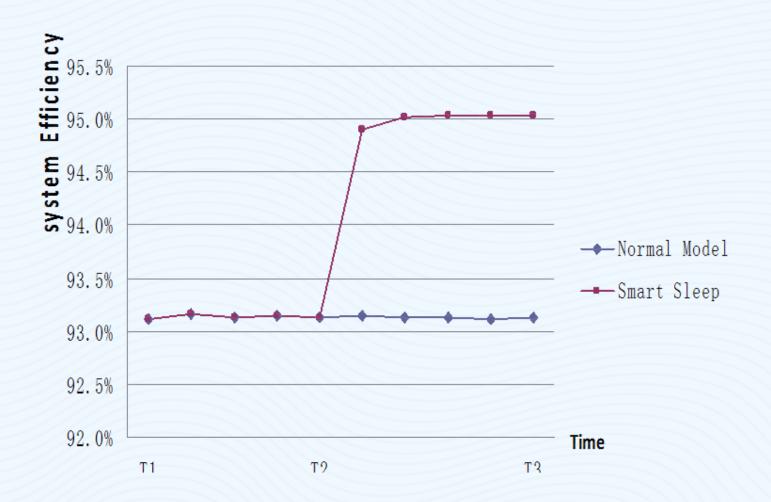


- One equals more
- Less fault points
- Smaller size
- Inner thermal sensor
- Higher reliability



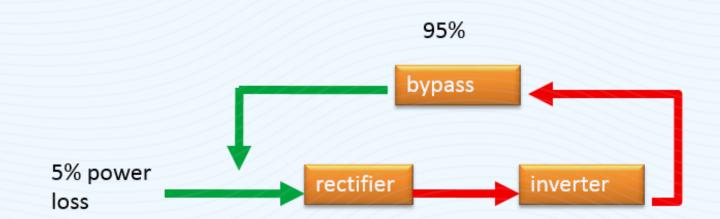
Smart Sleep function

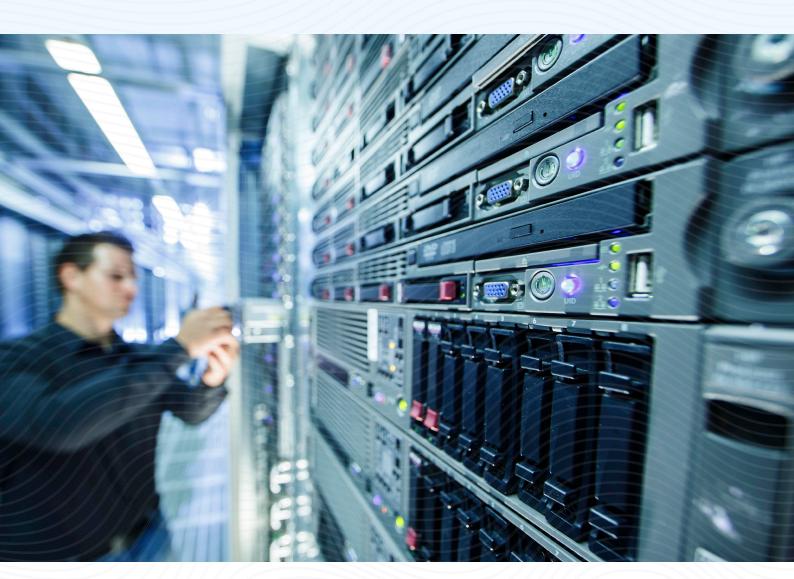
- Increase system efficiency when in low load
- Easy setting, friendly for customers
- Power modules working in rotation, prolong the total life time



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

Model SCALANEXT

Modular, Scalable, Swappable, Transformerless Online Double Conversion UPS Description

Part Number ScalaNext 1830/1830 U ScalaNext 3030/3030U

180 kVA; expandable to 540kVA (paralleling 3 units) 300 kVA; expandable to 900kVA (paralleling 3 units) Max capacity

Max # of modules/frame 10

600 x 1100 x 1600 mm Dimension (WxDxH) 600 x 1100 x 2000 mm Weight 165 kg 242 kg

Display 10.4" touch colour LCD+LED+Keyboard

Part Number ScalaNext M30 / M30U 30kVA/27kW for M30 & 30kVA/30kW for M30U

Capacity Dimension (WxDxH) 460 x 790 x 134 mm

34

3 Phases + Neutral + Ground **Grid System** 380/400/415VAC (Line-Line) Rated Input Voltage Rated Frequency 50/60Hz

304~478Vac (Line-Line), full load;

Input Voltage Range 228V~304Vac (Line-Line), load decrease linearly according to the min phase voltage

40Hz~70Hz Input Frequency Range >= 0 99 Input Power Factor <3% (full Linear Load) Input Current THDi

380/400/415VAC (Line-Line) Rated Bypass Voltage

50/60Hz Rated Frequency

Selectable, default -20%∼+15% Bypass Voltage Range

Upper limit: +10%, +15%, +20%, +25%; Lower limit: -10%, -15%, -20%, -30%, -40%

Selectable, ±1Hz, ±3Hz, ±5Hz Bypass Frequency Range 110% Continuous; 110%~125% for 5min; **Bypass Overload** 125%~150% for 1min; 150% to 400% -1s / >400% - ≤200ms

Rated Inverter Voltage 380/400/415VAC (Line-Line)

50/60Hz Rated Frequency

0.9 for M30 & 1 for M30U Output Power Factor ±1.5%(0-100% linear load) Voltage precision Transient Response <5% for step load (20% - 80% -20%)

< 30ms for step load (20% - 100% -20%) Transient recovery

Output Voltage THDu <1% (linear load)

110%, 60min; 125%,10min; 150%,1min; >150%,200ms Inverter Overload

50/60Hz±0.1% Frequency Regulation

Settable, ±0.5Hz ~ ±5Hz, default ±3Hz Synchronized Range

Crest Factor

BATTERY AND CHARGER

±240VDC (32 - 44 blocks Lead Acid 12V) **Battery Rate Voltage**

Charger Voltage precision

Charger Power max > 20% * total power

>95% **Normal Operation Battery Operation** >95% >99% **ECO Opetation**

Supercharger 50A, Bottom entry kit Optional

Interface Standard:RS232, RS485, USB, Dry Contact; ,SNMP Card

0 ~ 40 °C Operation Temperature -40 ~ 70 °C Storage Temperature **Relative Humidity** 0 ~ 95% (Non condensing)

65dB @ 100% load, 62dB @ 45% load Noise (1 meter)

EN50091-1/ IEC62040-1-1 / AS62040-1 General safety EN50091-2 / IEC62040-2 (C3) / AS62040-2 FMC Performance test EN50091-3 / IEC62040-3 /AS62040-3(VFI SS111)

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