

SCALA



Scala Next II Modular UPS Series

**The Ultimate Power Protection for Cloud
Computing Data Center**

+ Modular

+ Scalable

+ Hot swappable

**Three Phase Online Double Conversion UPS
50 – 1500 kVA**

Reliable Power for a sustainable business

Scala Power Corporation , manufactures efficient solutions that ensure power quality and business continuity, guaranteeing power supply and the correct operation of systems even in the event of critical situations.

We are constantly implementing new solutions into our products that are aimed at reducing power consumption by increasing efficiency, and actively participating in the promotion of sustainable development. To this end the company also sets up environmental projects and makes large investments in the development of new technologies for harvesting clean and renewable energy sources

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 II

The Scala Next II is the ultimate modular UPS for DATA CENTRES especially with high reliability for cloud computing business. It is designed to protect any critical high-density computer and IT environment, whilst achieving maximum availability.

The Scala Next II capacity grows along with the demands of the business without oversizing the UPS - optimizing both the initial investment and the Total Cost of Ownership. As soon as demand increases, the Scala Next II can expand its power capability, maintaining the highest levels of power protection, availability, redundancy and investment savings. Digital technology has an increasingly strong influence on day-to-day activities in almost all sectors and applications such as healthcare, power generation, social networking, telecommunications, commerce and education. Subsequently, any activities and equipment related to data storage, processing and transfer should be supplied from the most reliable power source. Scala Next II ensures that a scalable, secure, high quality power supply is available for a variety of critical load applications for sustainable business process.

The Scala Next II feature the very latest in UPS technology, With its three level insulated-gate bipolar transistor (IGBT) inverter and Power Factor Correction (PFC) input control, it ensures the highest level of performance in terms of overall efficiency, input power factor and harmonic impact on the supply source.

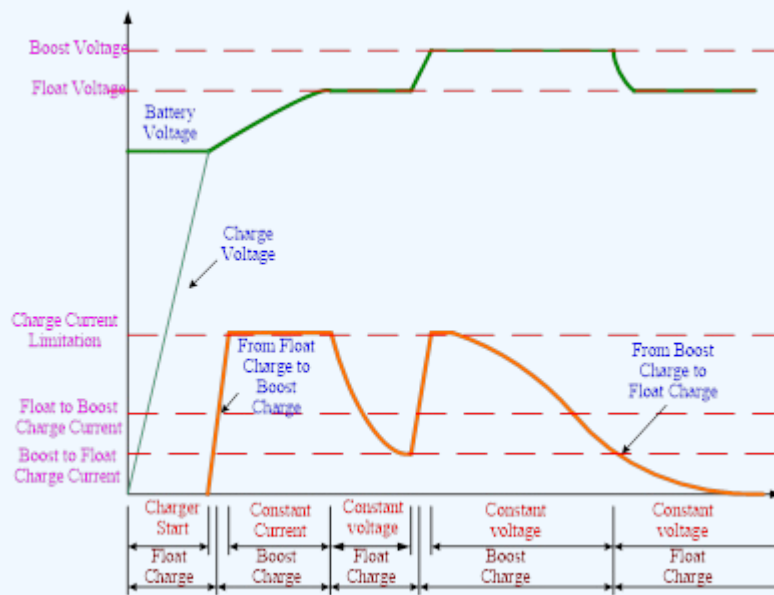


Feature

Compact design :
500kVA in one cabinet, footprint less than 1.45m, saving valuable room space

High power density :
50kVA power module in 4 U height, easy for capacity expansion

Intelligent charging management
The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery



High scalability

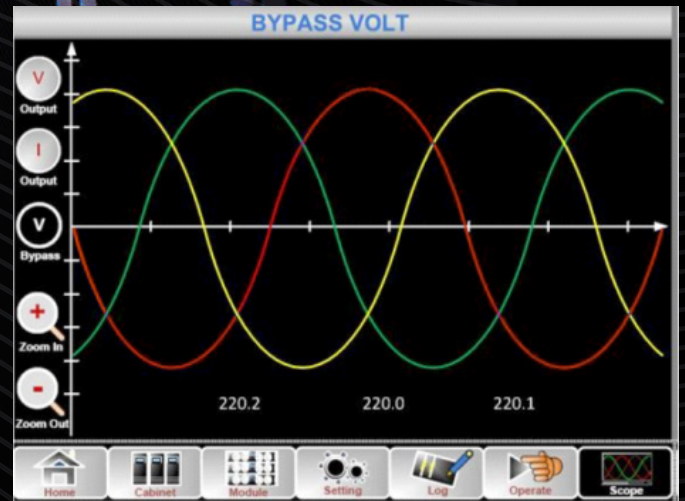
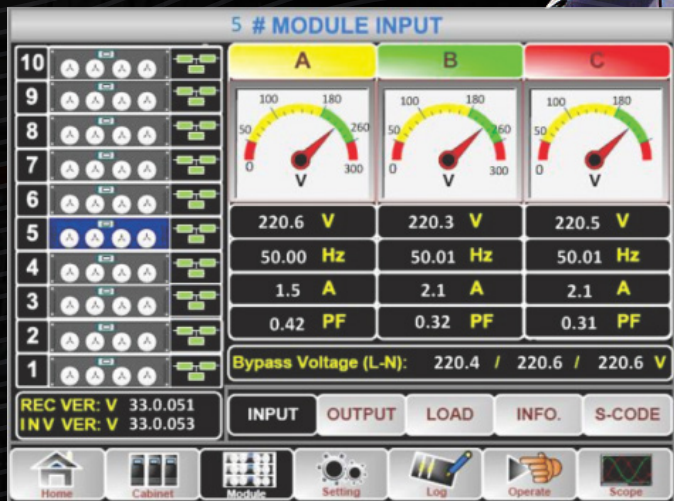
The system can be configured from 50kVA to 500kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA

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 to achieve system stability, reliability and efficiency

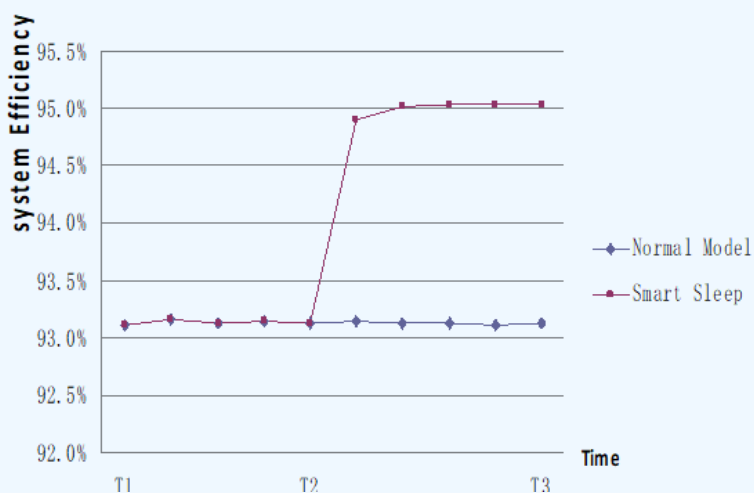
Friendly Interface

10.4" touch screen colour LCD with graphic display, independent LCD for each power module.



Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency



Improve efficiency in low load rate

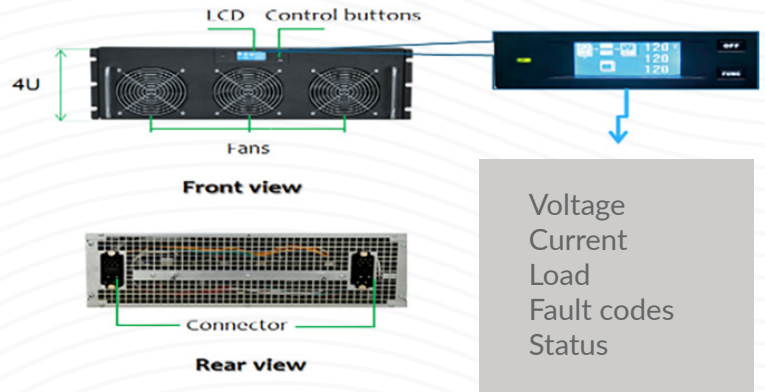
HOT SWAP design

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

Available Model

Scala Next M50

50kVA / 50kW Power Module
With LCD indicator



Scala Next 3050

Designed to house 6 power modules to reach maximum capacity of 300 kVA and expandable to 900 kVA by connecting three frames in parallel





Scala Next 5050

Designed to house 10 power modules to reach maximum capacity of 500 kVA and expandable to 1500kVA by connecting three frames in parallel



Technical Data Sheet

GENERAL		
Model	SCALANEXT II	
Description	Modular , Scalable , Swappable , Transformerless Online Double Conversion UPS	
CABINET FRAME		
Part Number	SCALANEXT 3050	SCALANEXT 5050
Max capacity	300 kVA ; expandable to 900kVA	500 kVA ; expandable to 1500kVA
Max # of modules/frame	6	10
Dimension (WxDxH)	650 x 1100 x 2000 mm	1300 x 1100 x 2000 mm
Weight	250 kg	450 kg
Display and Control Panel	Main display : 10.4" colour LCD with touch screen	
	LED indicator : Status , Bypass , Rectifier , Inverter	
	Button : Emergency Power Off (EPO) , Bypass transfer , Inverter Transfer	
POWER MODULE		
Part Number	SCALANEXT M50	
Capacity	50kVA / 50kW	
Dimension (WxDxH)	510 x 700 x 180 mm	
Weight	45 kg	
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; 228V~304Vac (Line-Line),load decrease linearly according to the min phase voltage	
Input Frequency Range	40Hz~70Hz	
Input Power Factor	≥0.99	
Input Current THDi	<3% (full Linear Load)	
Bypass Input		
Rated Bypass Voltage	380/400/415VAC (Line-Line) , 3 Phases + Neutral + Ground	
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; >150% for 1 sec	



Output	
Rated Inverter Voltage	380/400/415VAC (Line-Line) , 3 Phases + Neutral + Ground
Voltage regulation	1% for balance load ; 1.5% for unbalance load
Rated Frequency	50/60Hz
Frequency precision	0.1%
Output Power Factor	1
Output THDu	<1% Linear Load , < 5.5% Non-linear Load
Crest Factor	3:1
Inverter Overload	<110% : 60min; 110% - 125% : 10min; 125% - 150%,1min; >150%,200ms
Battery And Charger	
Battery Rate Voltage	±240VDC
Battery Type / Number	Lead Acid / 40pcs (Settable: even number from 32 to 44)
Charger Power	Up to 20% Output Active Power
Voltage precision	±1%
Efficiency	
Normal Operation	>96%
Battery Operation	>96%
ECO Operation	>99%
System	
Optional	Lightning protection , Dust Filters , LBS
Interface	Standard:RS232, RS485, USB,Dry Contact;SNMP Card
Environmental	
IP Class	IP20
Operation Temperature	0 ~ 40
Storage Temperature	-40 ~ 70
Relative Humidity	0 ~ 95% (Non condensing)
Noise (1 meter)	72dB @ 100% load, 69dB @ 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)

SCALA

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