

SCALA

Scala Pro Modular UPS Series



High Performance , High availability , High Efficiency for
High Density Rack Zone

+ Modular **+ Scalable** **+ Hot swappable**

Three Phase Online Double Conversion UPS
20 – 400 kVA

Industry leading UPS Design

For more than 50 years, Scala Power Corporation has been safeguarding the critical systems of businesses across the globe. We offer a comprehensive range of environmentally-sensitive, efficient, reliable UPSs, surge protective devices, power distribution units (PDUs), remote monitoring, meters, software, connectivity, enclosures, airflow management and professional services.

We work with IT and facilities managers to effectively manage power in virtually every business segment, including data center, retail outlets, healthcare organization, governmental agencies, manufacturing firms, broadcasting companies, financial institutions, and a wide variety of other applications. Our solutions provide the power to make a difference, helping you achieve your business goals while maintaining environmentally sustainable enterprises. 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 equipment is running safely, reliably, sustainably and energy-efficiently at all times.

Scala Pro

The Scala Pro by Scala Power Corporation is a world-class, redundant, scalable, high-efficiency power protection systems designed to cost effectively provide high levels of availability. Seamlessly integrating into today's state-of-the-art data center designs, the Scala Pro 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 Pro 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 Pro delivers high availability, extreme agility, and low total cost of ownership in an aesthetic form factor. With industry-leading power density, the Scala Pro has the ability to fit seamlessly onto the data center floor or into the back room.



Scala Pro 620

Scala Pro 1220

Scala Pro 2020

Scalability is the main key for capital expenditure (CAPEX) optimization .

Scala Pro series provides optional frame size to house the maximum future capacity thus avoiding oversized frame , in effect to match with existing CAPEX budget.

Available Model

Scala Pro 620

Designed to house 3 power modules to reach maximum capacity of 60kVA

Scala Pro 1220

Designed to house 6 power modules to reach maximum capacity of 120 kVA and expandable to 360kVA by connecting three frames in parallel

Scala Pro 2020

Designed to house 10 power modules to reach maximum capacity of 200kVA and expandable to 400kVA by connecting two frames in parallel

Key feature and benefits

TRUE MODULAR design

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

HOT SWAP design

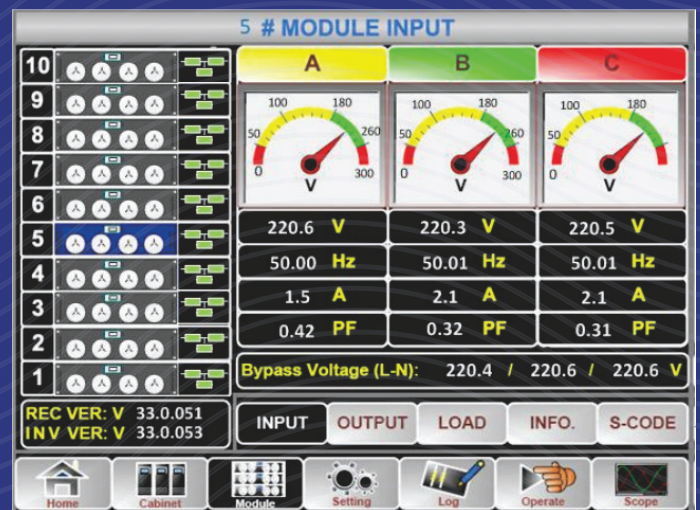
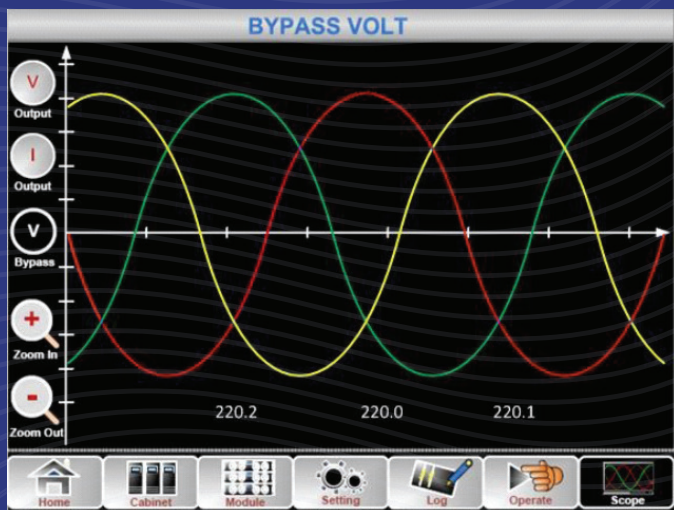
Power module can be replaced or added while another module continues protecting the load.

REDUNDANCY and CAPACITY

Power Frame can be paralleled for redundancy or expansion (Scala Pro 1220 and 2020)

Dual-mains input

Two separate power inputs for increased availability.



User friendly interface
With Graphical Real Time Chart

LED light and LCD touch screen

Comprehensive user friendly LED light and LCD touch screen, make it easy to operate. Password control at different levels to manage access of UPS configuration

Power Module

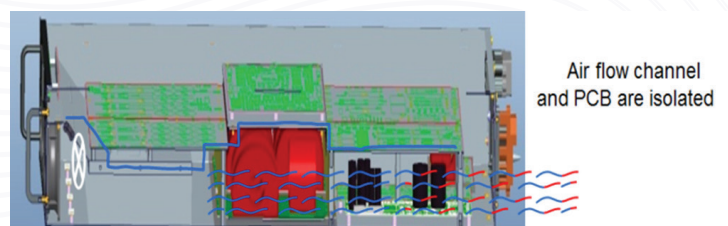
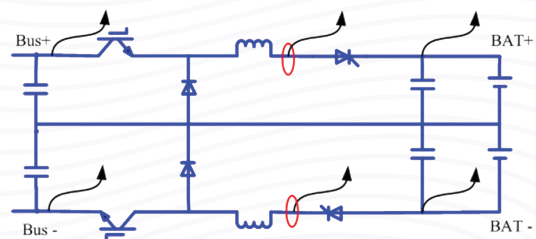
Scala Pro M20

Three Phase Power module with rating 20kVA / 18 kW



KEY FEATURES

- **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.
- **INTELLIGENT BATTERY CHARGER** in each module, selectable from 0 to 3.2kW to deliver up to 20% of the rated power per UPS module for battery charging
- **INDEPENDENT AIR CHANNEL**
Cooling air runs in isolated channel, keeping PCB free of dust



Technical Data Sheet

GENERAL

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

CABINET FRAME

Part Number	SCALA PRO 620	SCALA PRO 1220	SCALA PRO 2020
Max capacity	60kVA	120 kVA ; expandable to 360kVA (paralleling 3 units)	200 kVA ; expandable to 400kVA (paralleling 2 units)
Max # of modules/frame	3	6	10
Dimension (WxDxH)	600 x 900 x 1100 mm	600 x 900 x 1600 mm	600 x 900 x 2000 mm
Weight	105 kg	145 kg	180 kg
Display	LED , LCD Touch Screen , Buttons		

POWER MODULE

Part Number	SCALA PRO M20
Capacity	20kVA / 18kW
Dimension (WxDxH)	440 x 590 x 134 mm
Weight	22 kg

INPUT

Nominal Voltage	3 Phase + N + G , 380V/400V/415V (line to line) , 220V/230V/240V (line to neutral)
Voltage Range	228V - 478 V (line to line) ; Default nominal 380V : -40% to +25%
Frequency range	40 - 70 Hz
Input power factor	> 0.99
THDi	<3% at 100% linear load

BYPASS

Nominal Voltage	380V/400V/415V (line to line) , 220V/230V/240V (line to neutral)
Voltage Range	-20% +15% full load
Overload	125% continuously ; 125% < load <130% for ≤ 1 hour ; 130% < load <150% for ≤ 6 mins ; >1000% for ≤ 100ms
Efficiency	> 99% at full load

OUTPUT

Nominal Voltage	380V/400V/415V (line to line) ; 220V/230V/240V (line to neutral)
Voltage regulation	±1% (balance load) , ±1.5% (unbalance load)
Voltage THD	THD<1.5% (linear load)
Power factor	0.9
Phase	120°±0.5%
Crest factor	3 : 1
Overload	< 110% : Continously ; 110% to <125% : 60mins ; 125% to <150% : 10mins ; 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 ; 99% at ECO Mode
IP Class	IP20
Operating condition	0 - 40 °C / 0 - 95% RH
Storage temperature	(-40 °C) to 70 °C
Noise	55 dB (1 m)
Communication	RS232, RS485, Dry Contacts, SNMP Card , EPO, Generator Interface, LBS Port

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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