



SANTAK® ARRAY SERIES MODULAR UPS

# ARRAY® 3A3™ PT

Modular UPS System Solution  
60-600kVA



# ARRAY 3A3 PT

ARRAY 3A3 PT is SANTAK's new generation modularized UPS. An ideal solution for a safe, reliable, stable and green UPS which satisfies any customer's one-stop demand to a basic power supply solution for their data center with its compatibility with the ARRAY series modular UPS.

The ARRAY 3A3 PT is SANTAK's latest three/three modularized, digitally controlled UPS. It is the realization of the latest electronics and automation control technology, a benchmark in the UPS market. The ARRAY 3A3 PT brings about a new concept in power supply solution, allowing a breakthrough in the practicability of power usage equipment. ARRAY 3A3 PT applies a tray type, smart modular design that allows for hot plug/play designs, this allows flexible adjustment of the modules to satisfy power

and reliability requirements. Zero off line maintenance is also realized by its capability to conduct on line maintenance when modules are idle.

## Extra Low TCO (Total Cost of Ownership)

Conserves valuable data center floor space with its compact footprint and internal redundancy design.

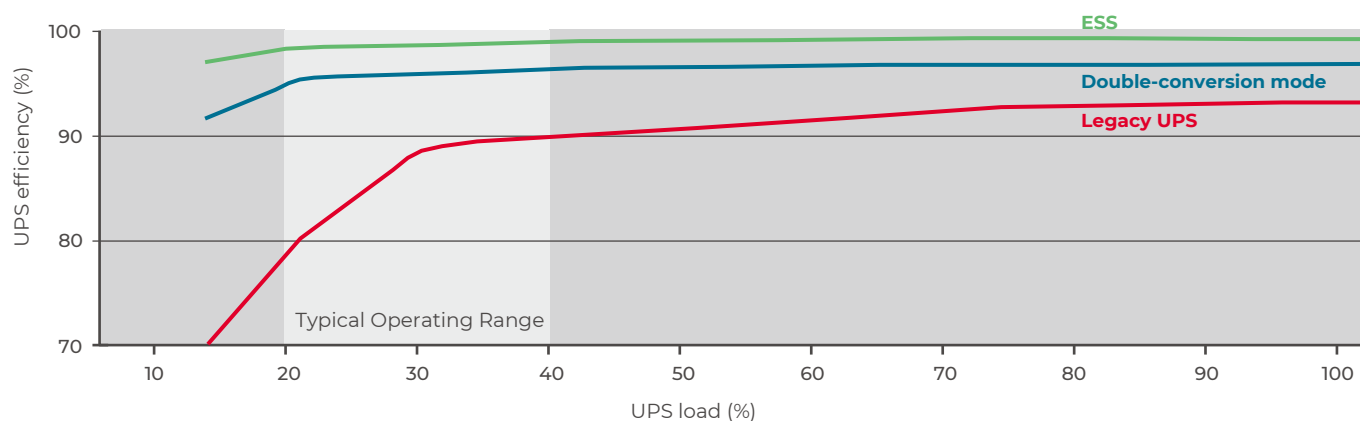
Reduces cost and unexpected future growth risks with its vertical scalability, enabling you to scale as you grow.

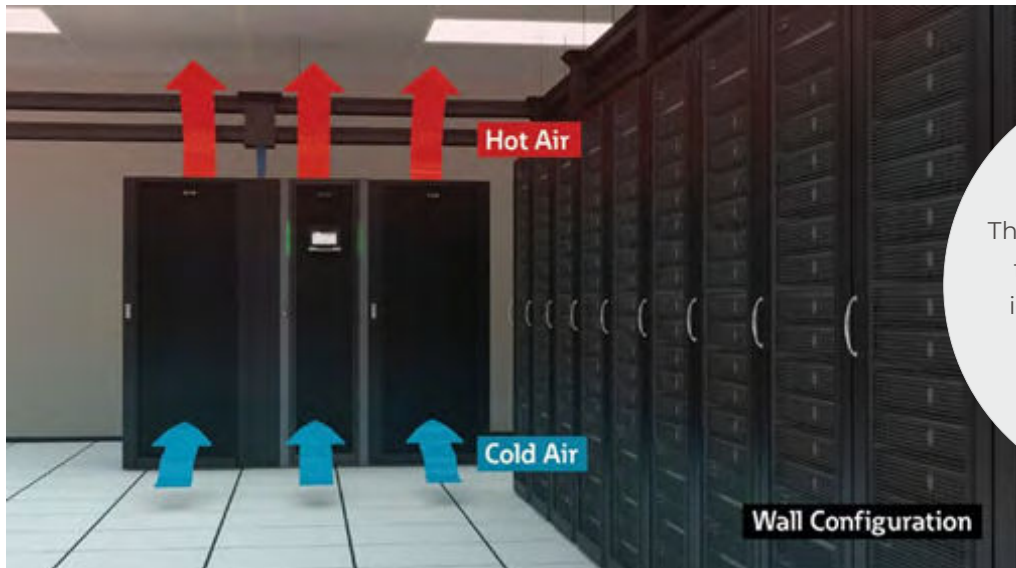
Reduces power and cooling OPEX through industry- leading energy-efficiency.

- 99% efficiency with ESS
- Up to **97%** efficiency in double-conversion mode

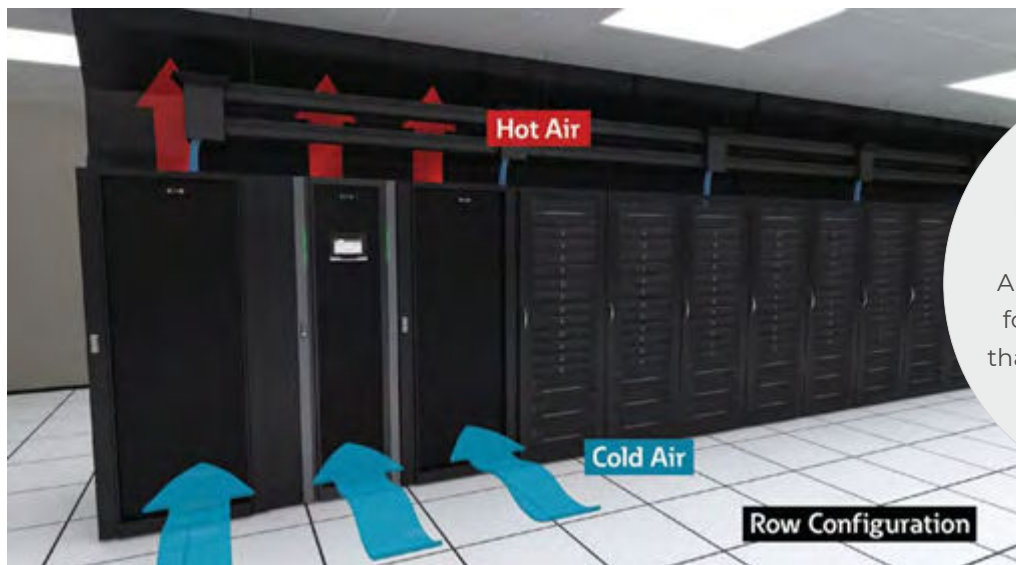


## The ARRAY 3A3 PT vertical scalability, internal redundancy and compact footprint design

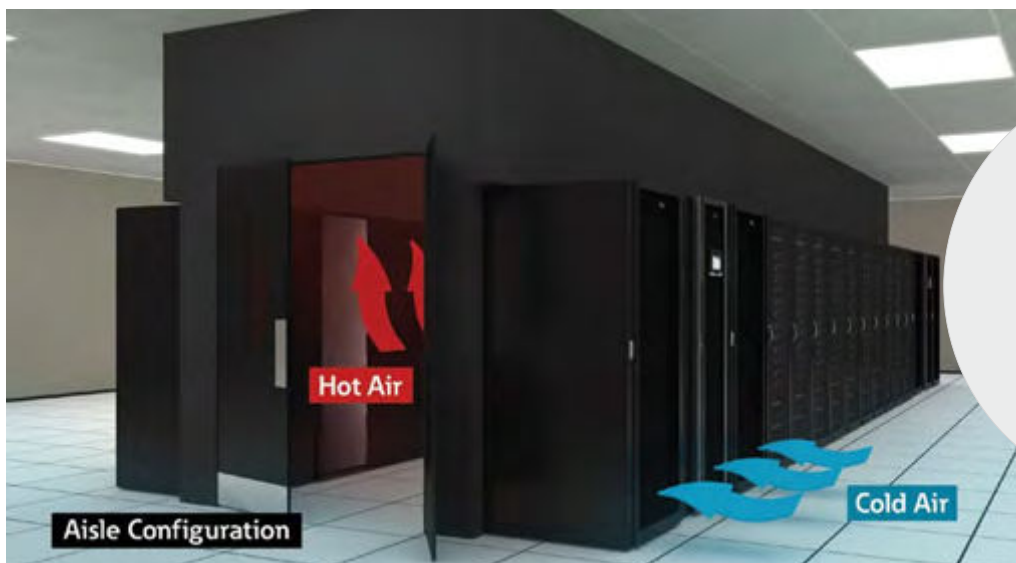




The ARRAY 3A3 PT supports front-to-top ventilation, ideal for against the wall configuration.



Front-to-top ventilation feature also makes the ARRAY 3A3 PT a perfect fit for in-row configurations that support slim chimneys.

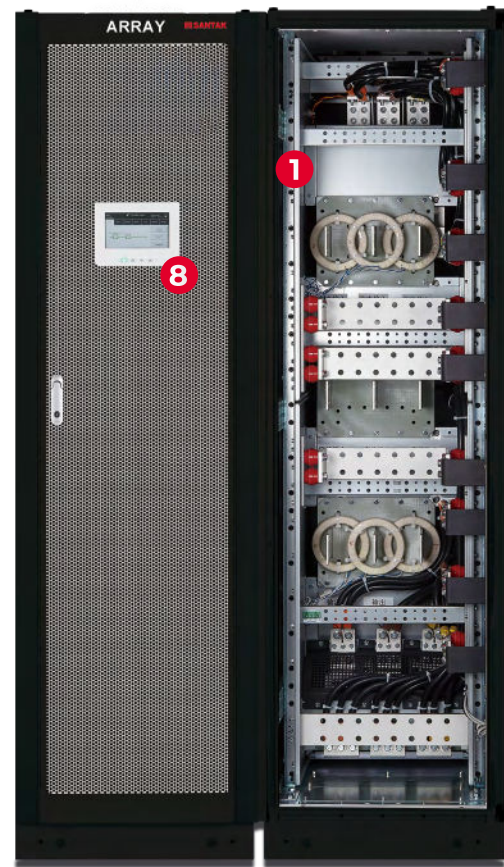
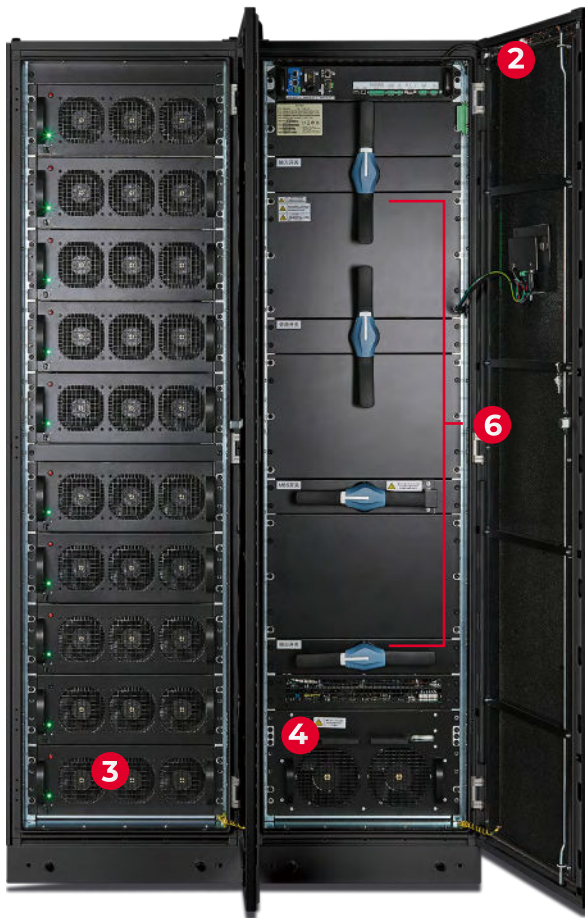


The ARRAY 3A3 PT also supports front-to-back ventilation making it great for hot/ cold aisle configuration.

\* with rear chimney kits



# ARRAY 3A3 PT



## 1 Cable entry

Top and bottom cable entry available

## 2 Communications and connectivity

- Built-in device and host USB
- Five alarm inputs and dedicated EPO
- Alarm relay output
- Four communication slots

## 3 60kW HOTSWAPPABLE power modules (1~10)

## 4 Replaceable centralized STSW modules

600kW with fast protection bypass fuse and back-feed protection

## 5 DC start controls

Contained within each power module

## 6 Input / output isolations

Contained Input / Output / Bypass / MBS isolation options

## 7 Redundancy and speed controllable FANs

## 8 7"Colorful display



# The functional core of the ARRAY 3A3 PT



Enhanced efficiency and reliability with SIC Hybrid IGBT Module



Long life oil-filled capacitor

Up to 50% footprint saving

Flexible ventilation options

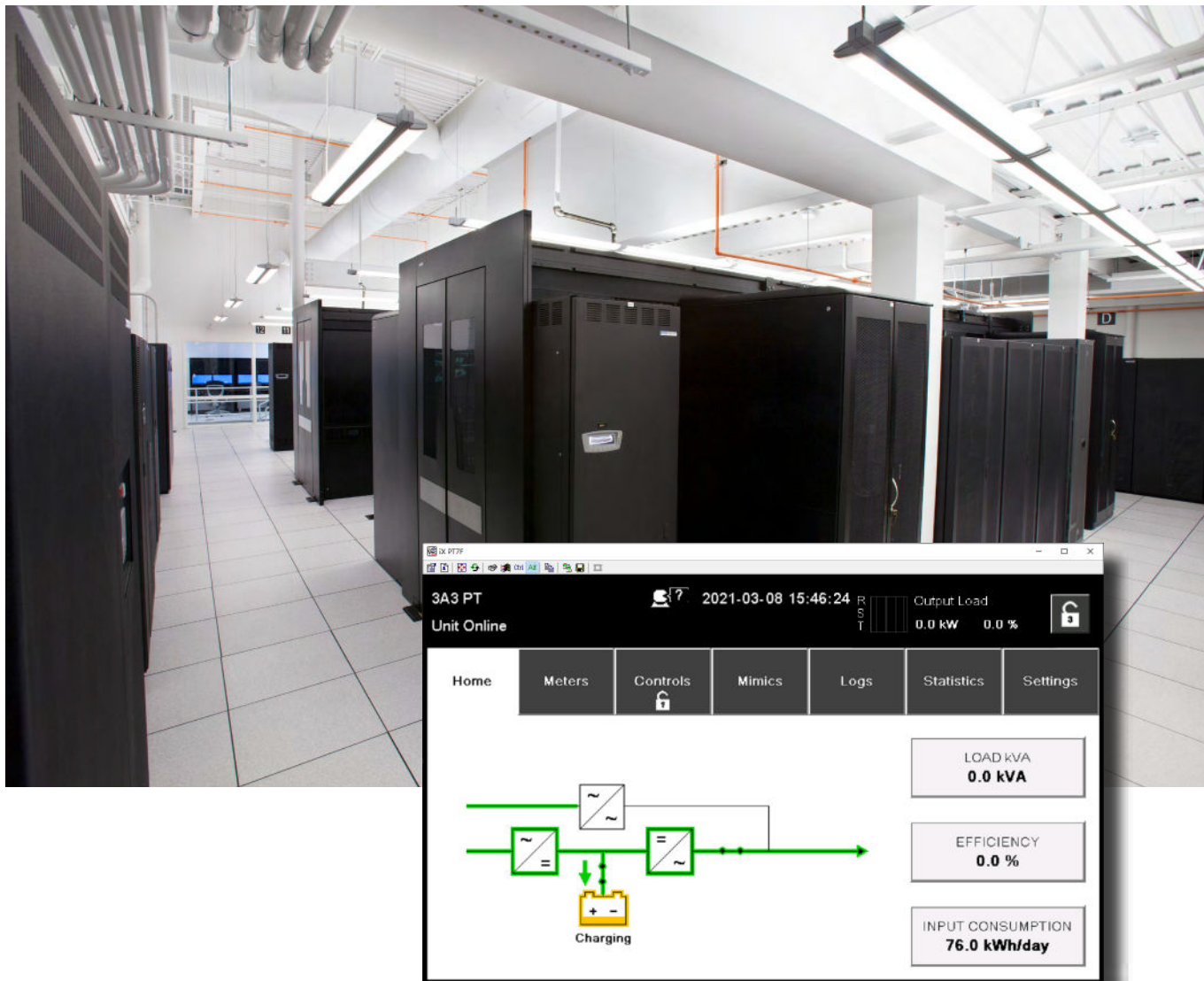
On-line replaceable UPM & STSW & Communication module, MTTR as low as 5 mins

Robust components using oil-filled capacitors & IGBT modules.

Perfect integration with Lithium battery, compatible with multiple Lithiumion BMS

High efficiency UPM module, efficiency up to 97%

Complete power isolation options (Input/ Output/ Bypass/ MBS)



## EASY MANAGEMENT

**PROVIDES EASIER ACCESS TO DETAILED STATUS INFORMATION THROUGH ITS LARGE, USERFRIENDLY LCD TOUCHSCREEN INTERFACE**

With the ARRAY 3A3 PT graphical LCD interface you can track stats on energy savings, battery time, outage tracking, load profiling and much more.

**INTEGRATES WITH THE LEADING VIRTUAL PLATFORMS THROUGH ITS FULL SUITE OF POWER MANAGEMENT AND CONNECTIVITY SOFTWARE**

Designed for the most advanced IT environments, the ARRAY 3A3 PT supports optional communication cards that allow remote access via the HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU and BACnet IP protocols.

# ARRAY 3A3 PT UPS Technical Specifications

Power modules	
Power offering (kW)	60kW (62.5kW optional)
Frame options	
600kW	Standard offer input /output /MBS /bypass swithes
General characteristics	
Efficiency in Energy Saver System (ESS)	Up to 99%
Efficiency in double-conversion mode	Up to 97%
Parallel capability	Standard 4 units external parallel (Max 8 units with factory customization)
Cold start	Supported
Softstart	Rectifier ramp up, compatible with generator, ramp up rate configurable
Input characteristics	
Voltage	380/400/415V
Voltage range	301~478V L-L 175~276V L-N
Frequency range	50/60 Hz
Power factor	> 0.99
Input current distortion	< 3% @ 100% load capacity
Battery	
Battery Type	Lithium, VRLA
Charging method	ABM
Battery Voltage	432-528Vdc (Selectable)
Battery Connection	Two wire ( no neutral )
Output	
Voltage	380/400/415V 4 wire
Frequency range	50/60 Hz
Regulation	±1% steady state
Voltage THD	< 1% (100% linear load) < 5% (non-linear load)
Overload	125% 10 mins
Compliance with standards	
Safety	IEC 62040-1
EMC	IEC 62040-2
Performance	IEC 62040-3
RoHS	EU directive 2011/65/EU

\* Due to continuous product improvement programs, specifications are subject to change without notice.



# ARRAY 3A3 PT UPS Technical Specifications

UPS dimensions (mm)		Power Rating (W)	Module * Qty
3A3 PT 300kVA Frame with MBS (Height* Depth* Width)	2000*1100*600	3A3 PT-120	60kW*2
3A3 PT 600kVA Frame with MBS (Height* Depth* Width)	2069*1100*1200	3A3 PT-125	62.5kW*2
UPM dimensions (mm)		3A3 PT-180	60kW*3
Height	173.4 (4U)	3A3 PT-187	62.5kW*3
Depth	700	3A3 PT-240	60kW*4
Width	439	3A3 PT-250	62.5kW*4
Weight (kg)		3A3 PT-300	60kW*5
300kVA UPS (w/o UPM)	375	3A3 PT-312	62.5kW*5
600kVA UPS (w/o UPM)	726	3A3 PT-360	60kW*6
UPM	39	3A3 PT-375	62.5kW*6
		3A3 PT-420	60kW*7
		3A3 PT-437	62.5kW*7
		3A3 PT-480	60kW*8
		3A3 PT-500	62.5kW*8
		3A3 PT-540	60kW*9
		3A3 PT-600	60kW*10

## SANTAK ELECTRONIC (SHENZHEN) CO., LTD.

Shenzhen, P.R. China  
Address: No. 8 Baoshi Road, Baoan  
District, Shenzhen, 518101

Tel: 0086 755 27572666  
Fax: 0086 755 27572730 (27572480)  
Email: santakexport@santak.com

Website: [www.santak.com](http://www.santak.com)

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