Modular three-phase UPS

Serie ATP-RM

25-600 kVA

(380 V / 400V / 415 V)

ATLANTIC POWERenergy

ATP-RM series modular UPS provides the most compact footprint of less than 2m^2, with maximum capacity of 900kVA. With the best reliability and high performance, it remains a market leader.

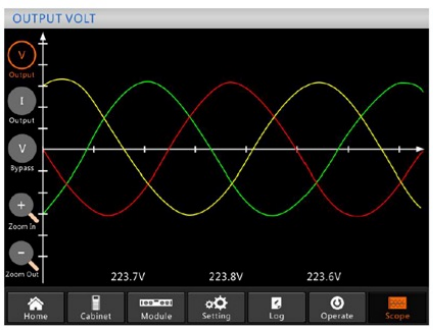
ATP-RM series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.

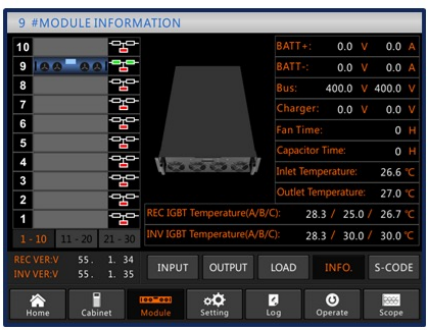
Independent LCD for Each Power Module

Each power module has an independent LCD, gives users 'direct overview of status data and alarms in real time.

Friendly Interface

Provide graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation.





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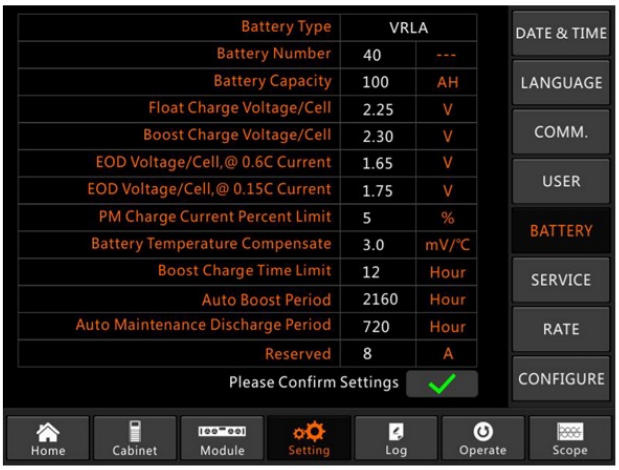
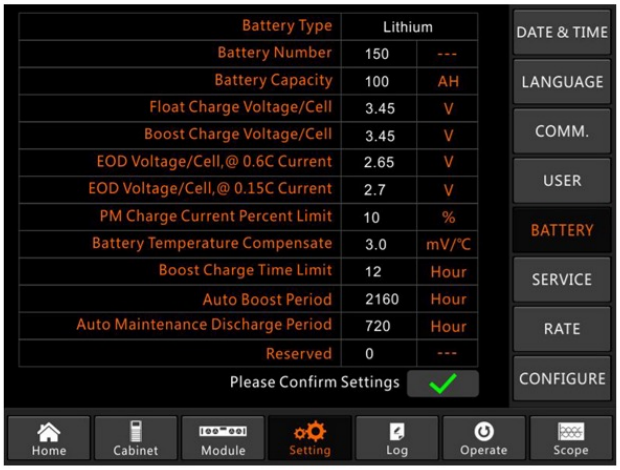
Setting of battery type

Parameters for operation with VRLA batteries



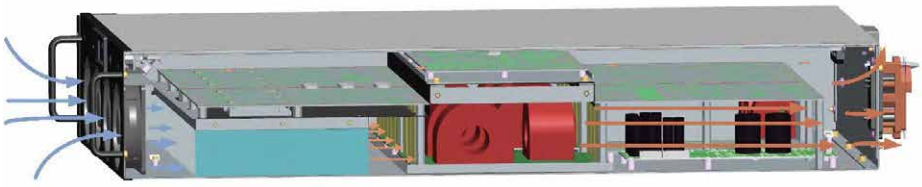
Parameters for operation with Lithium batteries



Isolated Air Flow

The dedicated and redundant hot-swappable power modules take the most unique structure design. In this design, the PCB boards and heat-sinkers are in two completely different layers, which allow the UPS run in dusty environments, significantly improving its stability and environmental adaptability.

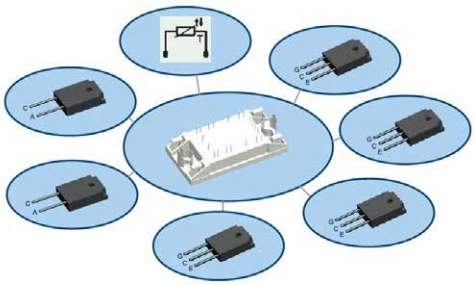
- Cooling air flows in the lower layer, keeping the upper PCB free of dust.
- One air flow channel ensures fans redundancy, even one fan fails, power module can run normally.



Unique design for high reliability

Instead of discrete IGBT and SCR components, ATP-RM series UPS uses modular IGBT and SCR in Rectifier and Inverter, bringing in extremely high reliability.

- All components in one module, less fault points, higher reliability.
- All components integrated as one modular design, smaller disparity.
- Less space needed, UPS with compact design and higher power design.



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High density, modular scalable

- High power density, footprint for 200kVA is 0.66m2, power density 240kW/m2, saving valuable data center space.
- Scalable from 20kVA to 600kVA, max 30 power modules in parallel.
- Inherently N+X redundant.
- Hot-swappable power module and bypass & monito- ring module.
- Additional charging module, extra charging current 50A × N for long time back up application.

Hot swappable power module and bypass & monitoring mo- dule

Additional charging module, extra charging current 50A×N for long time back up application

Comprehensive Monitoring Management

In each power module, information of critical components is monitored and displayed in real time, giving customers a view of inner status of the system and providing reminder information for maintenance.

- Maintenance reminder, running time of capacitors and fans displayed and recorded.
- Comprehensive temperature monitoring for thermal ab- normal detection.
- Intelligent battery charger for long battery life.

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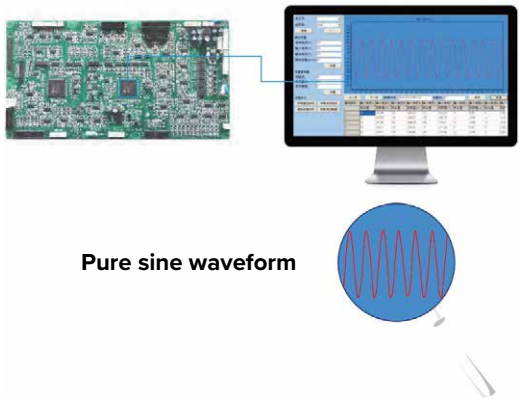
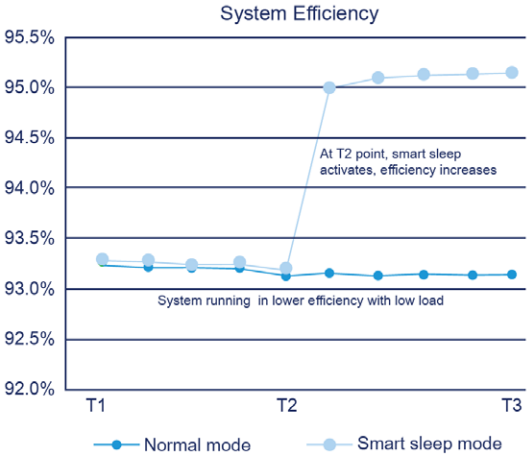
Critical Waveform Recording

- UPS can record and save the data of the main parameters automatically when faults happen for further analysis.
- Can record data information and present as waveform for further analysis.
- Can easily spot the causes of the failures, avoid future similar faults.





Smart Sleep

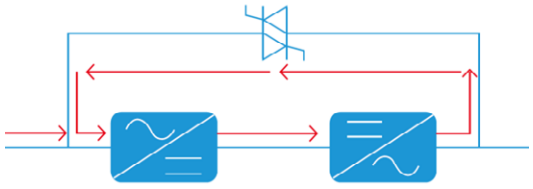
Smart Sleep function can intelligently make some power modules go to sleep when load is relatively low, improving the efficiency of the remaining power modules and saving customers on power and cooling costs.

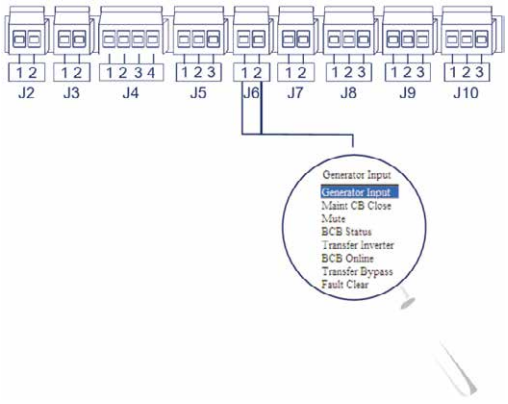
- Improving efficiency, reducing power and cooling costs.
- Easy setting with just two steps. Customers can select sleep mode and rotation period.
- Power modules working in rotation, prolong the life time.

Self-aging

Self-aging is an advanced function applied in all three phase UPS, Self-aging function can test UPS under different load situation without real load, saving more than 90% of energy.

- Simulate different load conditions without connecting to any real load, saving 90% of energy.
- On site setting supported, easy for factory testing.





Programmable Dry Contacts

Programmable dry contacts are available in all RM and HT33 series UPS. Customers can easily expand or modify the definition of each port.

Abundant options with three inputs and four outputs, all programmable

Easy setting, just pull the drop-down menu and set.

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Technical specifications

MODEL			ATPRM600/30X	ATPRM300/30X	ATPRM180/30X	ATPRM500/25X	ATPRM250/25X	ATPRM150/25X
System Capacity			600kVA	300kVA	180kVA	500kVA	250kVA	150kVA
Power Module Capacity			30kVA/30kW			25kVA/25kW		
Input	Dual Input		Optional					
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)					
	Input Voltage Range		304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage					
	Rate Frequency		50/60Hz					
	Input Frequency Range		40Hz~70Hz					
	Input PF		>0.99					
	Input THDi		<3% (100% Linear load)					
Bypass	Rate Voltage		380/400/415Vac (line-line)					
	Rate Frequency		50/60Hz					
	Input Voltage Range		Settable, -40% ~ +25%					
	Bypass Frequency Range		Settable, ±1Hz, ±3Hz, ±5Hz					
	Bypass Overload		125% long term operation; 130% for 10 mins; 150% for 1 min					
Output	Rate Voltage		380/400/415Vac (line-line)					
	Voltage Regulation		1% for balance load; 1.5% for unbalance load					
	Rate Frequency		50/60Hz					
	Frequency Precision		0.1%					
	Output PF		1					
	Output THDu		<1% , Linear load; <5.5%, Non-linear load					
	Crest Factor		3:1					
	Inverter Overload		110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms					
VRLA Battery	Voltage VRLA		±240 V CC					
	Battery Number		40pcs (Settable: even number from 32 to 44)					
	Voltage Precision		±1%					
	Charge Power		up to 20% * Output active power					
	Battery Cold Start		Standard					
LiFePO4 Battery	Voltage LFPB		±240Vdc					
	Number of 3.2V lithium cells		150pcs (Settable: even number from 140 to 180)					
	Voltage Precision		±1%					
	Charge Power		up to 20% * Output active power					
System	Efficiency	AC Mode	95.0%					
		ECO Mode	99.0%					
		Battery Mode	95.0%					
	Display		10.4" color touch screen LCD + LED + keyboard					
	IP Class		IP20					
	Interface		RS232,RS485, Programmable Dry Contact, USB					
	Option		SNMP Card, Parallel kit, SPD, LBS, Dust filter, Expansion dry contact card					
	Temperature		Operation: 0 ~ 40 ℃ Storage: -40 ~ 70 ℃					
	Relative humidity		0 ~ 95% Non-condensing					
	Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise					
	Noise (1 meter)		72dB@100%load	65dB@100%load		72dB@100%load	65dB@100%load	
			65dB@45%load	62dB@45%load		65dB@45%load	62dB@45%load	
	Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3					
Physical	Weight (kg)	Cabinet	660	242	178	660	242	178
		Module	32.3			32.3		
	Dimension W*D*H (mm)	Cabinet	2000*1050*2000	600*1100*2000	600*1100*1600	2000*1050*2000	600*1100*2000	600*1100*1600
		Module	460*790*134					

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