

RM Series Modular Online UPS 05-20kVA (220V/230V/240V)

RM3120/05D series are modular online UPS with hot-swappable battery. The single cabinet power rating from 5kVA to 20kVA, with its flexible configuration of 3/1 and 1/1, compact structure, is the ideal choice for small data center, as well as for sensitive electronics, convenient to be integrated with server.

With its high power factor and excellent overload capability, RM3120/05D improving the efficiency of power utilization and ensure system operating steady.



Battery Module

The cabinet of RM3120/05D contains 10 battery modules which can provide longer backup time. With new technology, common battery pack is available for single phase in and single phase out modular UPS, improving the reliability of power supply.

- Parallel up to 2 extra battery cabinet, each has 9 groups battery modules.
- Real-time data display, the voltage, current, temperature, etc of each module will be displayed on LCD screen, giving customers a view of inner status.
- Comprehensive monitoring for thermal abnormal detection, each module is equipped with temperature, operation status and fuse status detection function.



6pcs 12V 9Ah batteries



Smart Charging Module

This series can be compatible with the smart charging module which is designed for large current charging application where long backup time is required. It can provide additional current for batteries to form a systematic solution of power supply.



- Appearance consistency, charging module is consistent with the appearance and size of power module.
- Each charging module can provide a maximum of 10A charging current, while each power module can offer up to 1.8A, both of them are adjustable flexibility, to meet various requirements of customer.
- Compatible with the RM3120/05D series, easy for the UPS to expand charging capacity.

Application

All kinds of small and midium data center, network servers, control system, precision instruments and intelligent equipments.

- Financial institution



- Education, office and PC



- Military and government



- Communications



- Medical

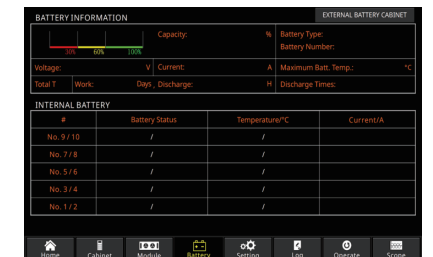
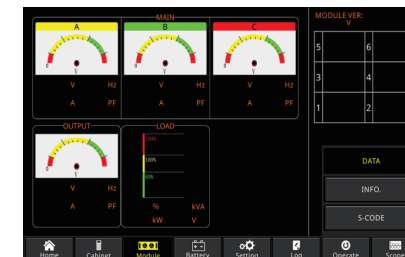
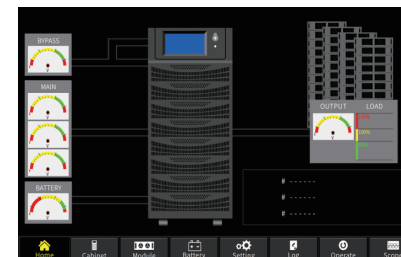


- Power supply and manufacture



Friendly Interface

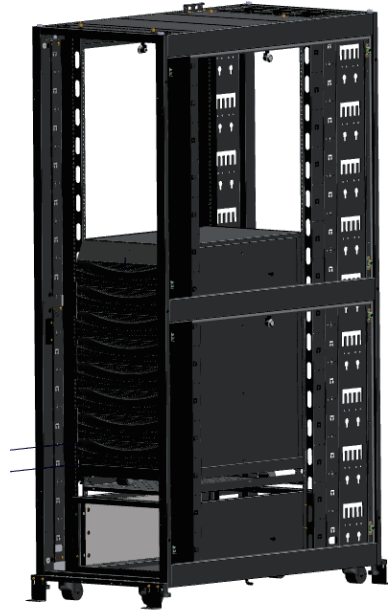
Provide graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation.



Power Module

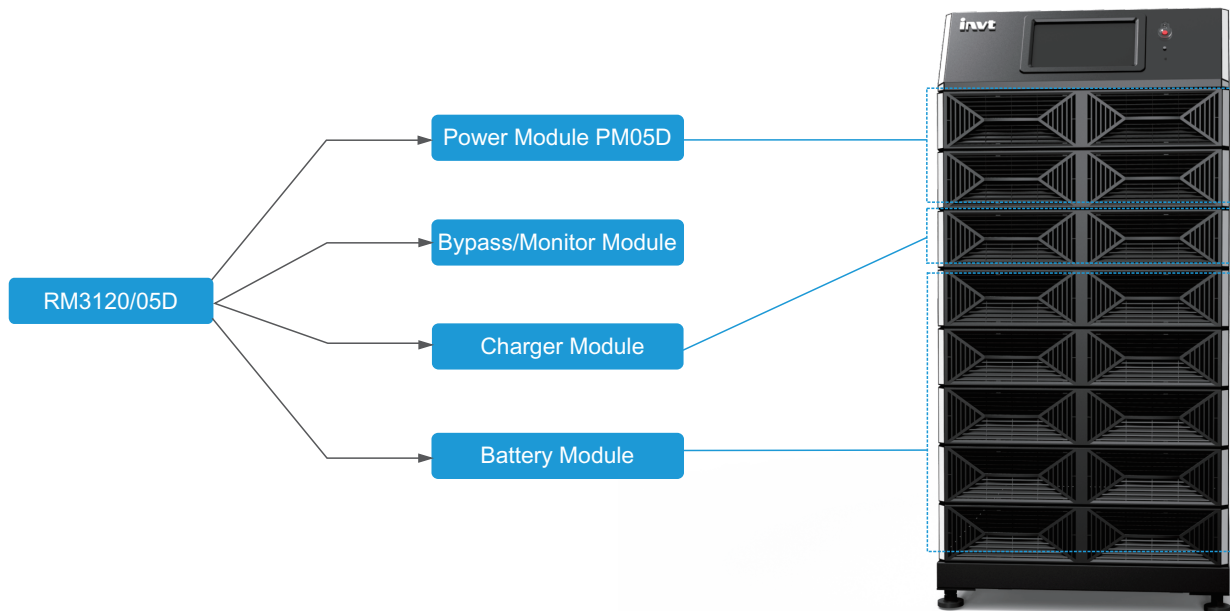
Hot swappable power module 5kVA in 2U height make it easier to maintenance, installation, and power expansion.

The single cabinet contains 1 to 6 power modules, it has 2 redundant module when plug in 6 modules. The system has high scalability.



Features

- High efficiency, more than 94.5%
- Rack modular design, compatible with 19" standard rack cabinet, convenient to be integrated with server
- Easy for power expansion and backup time expansion
- Intelligent protection and monitoring technology for safe and reliable battery package of the system
- Modular design with swappable power module and battery
- Flexible configuration, based on 5kVA can be configured to 3/1 and 1/1 without derating
- Friendly interface with 7" touch color LCD with graphic display, more information displayed and easier to operate
- Complete solution for the small data room center



Specification

Module		RM3120/05D		
System Capacity		20kVA		
Input	Phase	3Phase+Neutral+Ground, 380V/400V/415V (line to line) 220V/230V /240V (line to neutral)		
	Input Voltage Range	277~478Vac (line-line),full load; 147~277Vac (line-line), load decreases linearly from 100%~50%		
	Rate Frequency	50/60Hz		
	Inout Frequency Range	40~70Hz		
	Input PF	>0.99		
Bypass	Input THDi	<5% (100%Linear load)		
	Rate Voltage	220V/230V/240V, line to neutral		
	Rate Frequency	50/60Hz		
	Input Voltage Range	settable, default -20%~+15% upper limit: +25%; lower limit: -40%		
	Bypass Frequency Range	settable,±1Hz, ±3Hz, ±5Hz		
Output	Bypass Overload Capabiltiy	125%, long time operation, 125%< load <130%, last for 5 minutes 130%<load<150%, last for 1 minute, >150%, last for 200ms		
	Rate Voltage	220V/230V/240V, line to neutral		
	Voltage Precision	±2%		
	Rate Frequency	50/60Hz±0.01%		
	Output PF	1		
	Output THDu	<1% linear load, <5% non-linear load (IEC/EN62040-3)		
	Inverter Overload	Normal	<110% for 1 hour; 110%~130% for 10 minutes; 130%~150% for 1 minutes; >150% for 200ms	
		Battery	<110% for 10 minutes; 110%~125% for 1 minute; 125%~130% for 10s; >130% for 200ms	
	Synchronization Range	settable,±0.5Hz/s~±5Hz/s, default ±3Hz/s		
	Synchronization Rate	settable,0.5Hz/s~3Hz/s, default 0.5Hz/s		
Output Dynamic Response	<5% (20%-80%-20% step load)			
Dynamic Recovery Time	<20ms (0%-100%-0% step load)			
Battery	Voltage	144VDC(12pcs)		
	Charge Power	0~1.8A settable(each module)		
	Charger Voltage Precision	1%		
System	Efficiency	AC Mode: >94.5%; ECO Mode: >98%; Battery Mode: >90%		
	Display	LCD+LED, 7" touch color screen and keyboard		
	IP Class	IP20		
	Interface	Standard: RS232,RS485,USB, Dry contacts		
	Option	SNMP card, AS400 card, parallel kits, SPD, dust filter,LBS		
	Temperature	Operation: 0-40℃ Storage: -40~70℃		
	Relative Humidity	0-95% Non-condensing		
	Altitude	<1000m, Load derated 1% per 100m From 1000~2000m		
	Noise(dB)	55dB @100% load		
	Applicable Standard	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 PERFORMANCE: IEC/EN 62040-3		
Physical	Weight(kg)	Cabinet:	RM3120: 66.5kg Battery: 67.3kg	
		Module:	7.5kg 17.8kg	
	Dimension(W*D*H)(mm)	Cabinet	443*695*928	
		Module	200*431*84.5 200*516*84.5	