

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

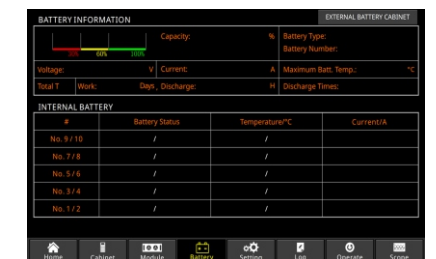


- Power supply and manufacture



Friendly Interface

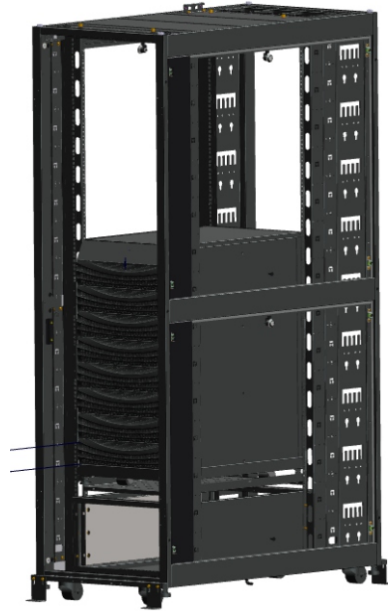
Provide graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation.



Power Module

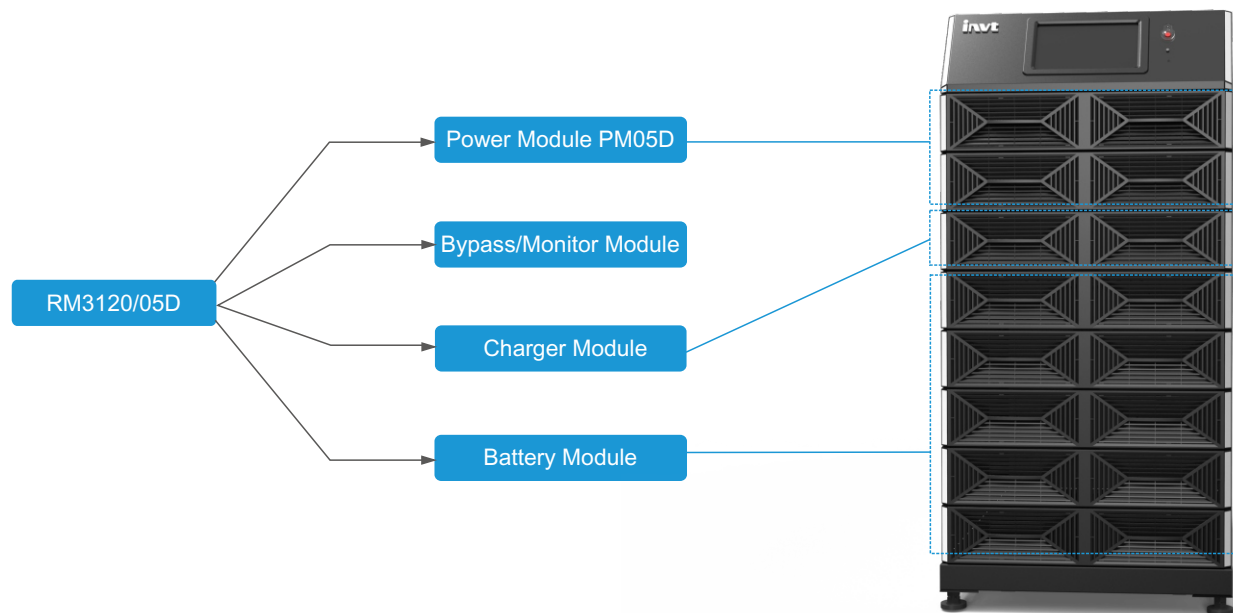
Hot swappable power module 5kVA in 2U height make it easier to maintenance, installation, and power expansion.

The single cabinet contains 1 to 6 power modules, it has 2 redundant module when plug in 6 modules. The system has high scalability. 3 units in parallel which can be configured from 20kVA to 60kVA.



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, support 3 parallel unit, 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 | |