

RMD Series

10 ~ 180kVA Modular UPS
10-30kW Modules



Power range

10~180kVA

Operation

3P/3P,3P/1P,1P/1P,Online double conversion

Applications

- Government
- Finance
- IT
- Education
- Transportation
- Broadcasting
- Medical
- Energy

Characteristics

- 7 inch touch LCD with IoT functions
- Supports 3P/1P,1P/1P flexibility configuration.
- High reliability and environmental adaptability with protection of components level
- No disassembly, direct mounted in 19 inch rack, or stand alone.
- Extreme high power density,30kW in 2U, friendly for space and maintenance.
- Supports supercharging, satisfy high-capacity lithium batteries.



TM

| Model | 10E Modules | | | 20E Modules | | | |
|------------------------|---|----------------------------------|---------------|--|------------|----------------------------------|--|
| | RMD020/10E | RMD040/10E | RMD060/10E | RMD040/20E | RMD080/20E | RMD120/20E | |
| Rate Power | 20kVA | 40kVA | 60kVA | 40kVA | 80kVA | 120kVA | |
| Main Input- | | | | | | | |
| Input | 3P5W (3P+N+PE) | | | | | | |
| Rate Voltage | 380/400/415VAC(L-L) | | | | | | |
| Rate Freq. | 50/60Hz | | | | | | |
| Input PF | >0.99 | | | | | | |
| Current distortion | THDi<2%(100% Linear load) | | | | | | |
| Voltage range | MOD10-25E: 304~478VAC(L-L)full load; 304~228VAC (L-L) power derate from 100% to 50% MOD30E: 324~478VAC(L-L)full load; 324~228VAC (L-L) power derate from 100% to 50% | | | | | | |
| Freq. range | 40-70Hz | | | | | | |
| Battery | | | | | | | |
| Rate voltage | ±120VDC(default 20pcs,20-50pcs selected) | | | ±240VDC(default 40pcs,30-50pcs selected) | | | |
| Charging capacity | 50%*Pout (Limited by input current) | | | | | | |
| Charging accuracy | ±1% | | | | | | |
| Bypass | | | | | | | |
| Rate voltage | 380/400/415VAC(L-L) | | | | | | |
| Voltage range | Range: -40%- +25% , Settable, default -20% +15% | | | | | | |
| Overload | 110%, long time operation;110%< load<load | | | | | | |
| Inverter | | | | | | | |
| Rate voltage | 380/400/415VAC(L-L) | | | | | | |
| Rate Freq. | 50/60Hz | | | | | | |
| Output PF | 1 | | | | | | |
| Voltage accuracy | ±1.0% | | | | | | |
| Output THDu | <1%(linear load),<3% (non-linear load according to IEC 62040-3) | | | | | | |
| Overload | 110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms | | | | | | |
| Frequency accuracy | 0.1% | | | | | | |
| Synchronize window | Settable, ±0.5Hz±5Hz default ±3Hz | | | | | | |
| Slew rate | Settable. 0.5Hz/S-3Hz/S default 0.5Hz/S | | | | | | |
| Crest factor | 3:1 | | | | | | |
| Phase Accuracy | 120° ±0.5° | | | | | | |
| System | | | | | | | |
| Efficiency-normal mode | up to 97% | | | | | | |
| Display | LED + 7 inch touch LCD | | | | | | |
| Certification- Safety | IEC62040-1, IEC60950-1 | | | | | | |
| Certification- EMS | IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge) | | | | | | |
| IP degree | IP20 | | | | | | |
| Configuration | USB, RS232, RS485, Dry contact, Cold start, Air filter, Ethernet port | | | | | | |
| Option | SNMP card, AS400 card, SPD, Parallel kit | | | | | | |
| Environment | 0-40 °C (operation); -25 °C ~70 °C (storage); 0-95% (Humidity, non-condensing) | | | | | | |
| Noise(dB)(1 meter) | 65dB @ 100% load, 62dB @ 45% load | | | | | | |
| Module | | | | | | | |
| Dimention (W*D*H)mm | 400*495*86 | | | | | | |
| Weight(kg) | 13.85 | | | | | | |
| Dimension | | | | | | | |
| Cabinet(W*D*H)mm | 600*750*1600 | 600*750*2000 | 600*1000*2000 | 1200*850*2000 | | | |
| Module(W*D*H)mm | 440*475*140 | | | | | | |
| Weight | | | | | | | |
| Cabinet | | 2-Slots | | 4-Slots(10kVA power module) | | 4-Slots | |
| | | RMD020/10E;RMD040/20E;RMD050/25E | | RMD040/10E | | RMD080/20E;RMD100/25E,RMD120/30E | |
| Dimention (W*D*H)mm | Body dimention (Wheels not included) | 442*711*307(7U) | | 442*710*485(11U) | | 442*661*705(16U) | |
| | MAX dimention | 442*751*397 | | 442*751*575 | | 442*841*797 | |
| weight (kg) cabinet | | 39 | | 52 | | 64 | |

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| Model | 25E Modules | | | 30E Modules | |
|------------------------|---|------------------|---------------|---------------|------------|
| | RMD050/25E | RMD100/25E | RMD150/25E | RMD120/30E | RMD180/30E |
| Rate Power | 50kVA | 100kVA | 150kVA | 120kVA | 180kVA |
| Main Input- | | | | | |
| Input | 3P5W (3P+N+PE) | | | | |
| Rate Voltage | 380/400/415VAC(L-L) | | | | |
| Rate Freq. | 50/60Hz | | | | |
| Input PF | >0.99 | | | | |
| Current distortion | THDi<2%(100% Linear load) | | | | |
| Voltage range | MOD10-25E: 304~478VAC(L-L)full load; 304~228VAC (L-L) power derate from 100% to 50% | | | | |
| | MOD30E: 324~478VAC(L-L)full load; 324~228VAC (L-L) power derate from 100% to 50% | | | | |
| Freq. range | 40-70Hz | | | | |
| Battery | | | | | |
| Rate voltage | ±240VDC(default 40pcs,30-50pcs selected) | | | | |
| Charging capacity | 50%*Pout (Limited by input current) | | | | |
| Charging accuracy | ±1% | | | | |
| Bypass | | | | | |
| Rate voltage | 380/400/415VAC(L-L) | | | | |
| Voltage range | Range: -40%- +25% , Settable, default -20% +15%; | | | | |
| Overload | 110%, long time operation;110%< load<125%, 10 mins 125%<load<150%,1 min | | | | |
| Inverter | | | | | |
| Rate voltage | 380/400/415VAC(L-L) | | | | |
| Rate Freq. | 50/60Hz | | | | |
| Output PF | 1 | | | | |
| Voltage accuracy | ±1.0% | | | | |
| Output THDu | <1%(linear load),<3% (non-linear load according to IEC 62040-3) | | | | |
| Overload | 110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms | | | | |
| Frequency accuracy | 0.1% | | | | |
| Synchronize window | Settable, ±0.5Hz-±5Hz default ±3Hz | | | | |
| Slew rate | Settable. 0.5Hz/S-3Hz/S default 0.5Hz/S | | | | |
| Phase Accuracy | 120°±0.5° | | | | |
| System | | | | | |
| Efficiency-normal mode | up to 97% | | | | |
| Display | LED + 7 inch touch LCD | | | | |
| Certification- Safety | IEC62040-1, IEC60950-1 | | | | |
| Certification- EMS | IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge) | | | | |
| IP degree | IP20 | | | | |
| Configuration | USB, RS232, RS485, Dry contact, Cold start, Air filter | | | | |
| Option | SNMP card, AS400 card, SPD, Parallel kit | | | | |
| Environment | 0-40 °C (operation); -25 °C ~70 °C (storage); 0-95% (Humidity, non-condensing) | | | | |
| Noise(dB)(1 meter) | 65dB @ 100% load, 62dB @ 45% load | | | | |
| Module | | | | | |
| Dimention (W*D*H)mm | 400*495*86 | | | | |
| Weight(kg) | 13.85 | | | | |
| Dimension | | | | | |
| Cabinet(W*D*H)mm | 600*750*1600 | 600*750*2000 | 600*1000*2000 | 1200*850*2000 | |
| Module(W*D*H)mm | 440*475*140 | | | | |
| Weight | | | | | |
| Cabinet | 6-Slots RMD60/10E; RMD120/20E; RMD150/25E;RMD180/30E | | | | |
| Dimention (W*D*H)mm | Body dimention (Wheels not included) | 442*661*906(20U) | | | |
| | MAX dimention | 442*841*976 | | | |
| Weight(kg)Cabinet | 88 | | | | |

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