

# PRM PLUS Series

## 10~120kVA Modular UPS

### Power range

10~120kVA

### Operation

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

### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

### Characteristics



Mounted in 19 inch rack, or stand alone.



7 inch touch LCD, with IoT functions.



High reliability and environment adaptability, with protection of components level.



Extreme high power density, 20kW in 2U, friendly for space and maintenance.



Option of 30A charger module for long backup applications.



| Model                       |                       | PRM PLUS                                                                                    |       |       | PRM PLUS                             |       |       | PRM PLUS                             |       |        |
|-----------------------------|-----------------------|---------------------------------------------------------------------------------------------|-------|-------|--------------------------------------|-------|-------|--------------------------------------|-------|--------|
|                             |                       | 20/10                                                                                       | 30/15 | 40/20 | 40/10                                | 60/15 | 80/20 | 60/10                                | 90/15 | 120/20 |
| Rate Power                  |                       | 20kVA                                                                                       | 30kVA | 40kVA | 40kVA                                | 60kVA | 80kVA | 60kVA                                | 90kVA | 120kVA |
| Main input                  | Input                 | 3P5W (3P+N+PE)                                                                              |       |       |                                      |       |       |                                      |       |        |
|                             | Rate Voltage          | 380/400/415VAC(L-L) 220/230/240VAC(L-N)                                                     |       |       |                                      |       |       |                                      |       |        |
|                             | Rate Freq.            | 50/60Hz                                                                                     |       |       |                                      |       |       |                                      |       |        |
|                             | Input PF              | >0.99                                                                                       |       |       |                                      |       |       |                                      |       |        |
|                             | Current distortion    | THDi<3%(100% Linear load)                                                                   |       |       |                                      |       |       |                                      |       |        |
|                             | Voltage range         | 304 478VAC(L-L)full load 304 228VAC (L-L) power derate from 100% to 75%                     |       |       |                                      |       |       |                                      |       |        |
|                             | Freq. range           | 40-70Hz                                                                                     |       |       |                                      |       |       |                                      |       |        |
| Battery                     | Rate voltage          | ±240VDC                                                                                     |       |       |                                      |       |       |                                      |       |        |
|                             | Charging capacity     | 20%*Pout                                                                                    |       |       |                                      |       |       |                                      |       |        |
|                             | Charging accuracy     | ±1%                                                                                         |       |       |                                      |       |       |                                      |       |        |
| Bypass                      | Rate voltage          | 380/400/415VAC(L-L)220/230/240VAC(L-N)                                                      |       |       |                                      |       |       |                                      |       |        |
|                             | Voltage range         | Range: -40%- +25% , Settable, default -20% +15%;                                            |       |       |                                      |       |       |                                      |       |        |
|                             | Overload              | 110%, long time operation ; 110%< load<125%, 5 mins ; 125%<load<150%,1 min ; >150%,1 second |       |       |                                      |       |       |                                      |       |        |
| Inverter                    | Rate voltage          | 380/400/415VAC(L-L) 220/230/240VAC(L-N)                                                     |       |       |                                      |       |       |                                      |       |        |
|                             | Rate Freq.            | 50/60Hz                                                                                     |       |       |                                      |       |       |                                      |       |        |
|                             | Output PF             | 1                                                                                           |       |       |                                      |       |       |                                      |       |        |
|                             | Voltage accuracy      | ±1.0%                                                                                       |       |       |                                      |       |       |                                      |       |        |
|                             | Load response         | <5% (20% - 80% -20% step load)                                                              |       |       |                                      |       |       |                                      |       |        |
|                             | Recovery time         | < 20ms (0% - 100% -0% step load)                                                            |       |       |                                      |       |       |                                      |       |        |
|                             | Output THDu           | <1%(linear load),<5% (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 95.5%; Battery Mode up to 95.5%                                           |       |       |                                      |       |       |                                      |       |        |
|                             | 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                                                  |       |       |                                      |       |       |                                      |       |        |
|                             | Option                | SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit                      |       |       |                                      |       |       |                                      |       |        |
|                             | Environment           | 0-40 (operation) -25 ~70 (storage) 0-95% (Humidity, non-condensing)                         |       |       |                                      |       |       |                                      |       |        |
|                             | Noise(dB)(1 meter)    | 65dB @ 100% load, 62dB @ 45% load                                                           |       |       |                                      |       |       |                                      |       |        |
| Dimention                   | cabinet(W*D*H)mm      | 482*700*396 (9U wheels not included)                                                        |       |       | 482*700*662(15U wheels not included) |       |       | 482*700*840(19U wheels not included) |       |        |
|                             | module(W*D*H)mm       | 440*555*85 (2U)                                                                             |       |       |                                      |       |       |                                      |       |        |
| Weight(kg)                  | Cabinet               | 55                                                                                          |       |       | 92                                   |       |       | 94                                   |       |        |
|                             | Module                | 17                                                                                          |       |       |                                      |       |       |                                      |       |        |
| Power Module rated capacity |                       | 10KW                                                                                        | 15KW  | 20KW  | 10KW                                 | 15KW  | 20KW  | 10KW                                 | 15KW  | 20KW   |



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