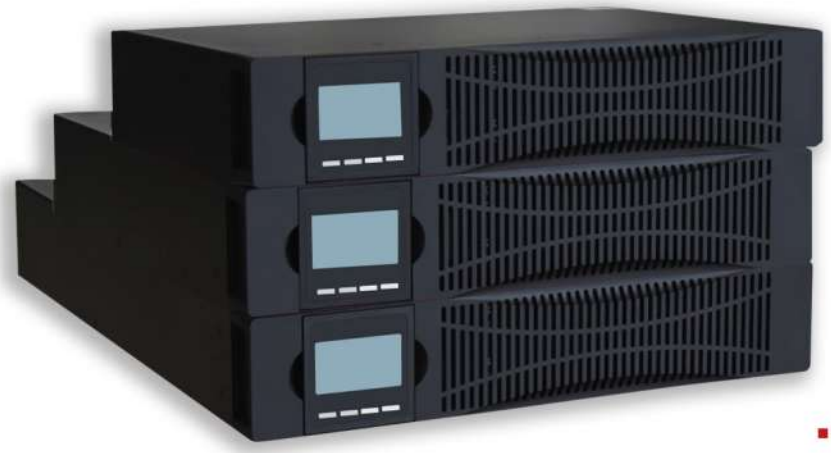

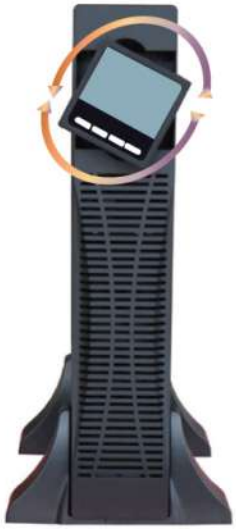

The LCD panel can be rotated

SNMP

Relay Card

Battery Cabinets (Optional)

3U for 3KVA standard unit

- 3 kind of LCD can be selected


Colourful LCD


Grey LCD


Blue LCD

| FEATURES | |
|---|---|
| ■ Online double convension | ■ ECO mode operation for energy saving |
| ■ Wide input voltage range (110~300Vac) | ■ Generator compatible |
| ■ Input power factor 0.9 (with PFC) | ■ SNMP + USB + RS232 multiple communications |
| ■ Emergency power off function (EPO) | ■ The LCD panel can be rotated |
| ■ Output power factor 1.0 | ■ Support lithium battery and BMS |
| ■ Maximum charging current 12A (Long run unit) | ■ Charging current can be set by LCD (Long run unit) |
| ■ Selectable output voltage: 200,208,220,230,240Vac | ■ Low priority load disconnection function |
| ■ 50Hz/60Hz frequency converter mode | ■ 8 minutes backup time standard units are optional |
| ■ Optional charging current 1A or 2A for standard unit, 2A charging current is for 2 groups of inside batteries | ■ Smart battery charging design for optimizing battery/ performance |

## Technical Specifications:

| MODEL | | XRT1000-U/RM | XRT2000-U/RM | XRT3000-U/RM |
|---|---|---|---|---|
| Capacity (VA) | | 1000VA | 2000VA | 3000VA |
| Phase | | Single phase | | |
| **INPUT** | | | | |
| Norminal Voltage | | 200/208/220/230/240/Vac | | |
| Operating voltage range | Low voltage of transferring to bypass | 160Vac±5%@100%~80% load 140Vac±5%@80%~70% load 120Vac±5%@70%~60% load 110Vac±5%@60%~0% load (Ambient Temp. <35C) | | |
| | Low threshold voltage of recovering from bypass | 175Vac±5%@100%~80% load 155Vac±5%@80%~70% load 135Vac±5%@70%~60% load 125Vac±5%@60%~0% load (Ambient Temp. <35C) | | |
| | High voltage of transferring to bypass | 300Vac±5% | | |
| | High threshold voltage of recovering from bypass | 290Vac±5% | | |
| Input Voltage Range | | 55~150Vac or 110~300Vac @ 60% load, 80~145Vac or 160~300 @ 100% load | | |
| Operating Frequency Range | | 40~70Hz | | |
| Power Factor | | 0.9 | | |
| Generator Input | | Support | | |
| **OUTPUT** | | | | |
| Output Voltage | | 200/208/220/230/240/Vac | | |
| Power Factor | | 1.0 | | |
| Voltage Regulation | | ±1% | | |
| Frequency | Line mode (Synchronized range) | 47~53Hz or 57~63Hz | | |
| | Bat. mode | (50/60±0.1)Hz | | |
| Crest Factor | | 3:1 | | |
| Harmonic Distortion (THDv) | | <2% THD (Linear load) | | |
| | | <4% THD (Non-Linear load) | | |
| Waveform | | Pure Sineswave | | |
| Transfer Time | AC mode <-> Batt. Mode | Zero | | |
| | Inverter <-> Bypass | 4ms (Typical) | | |
| **EFFICIENCY** | | | | |
| AC Mode | | 88% | 92% | 92% |
| Battery Mode | | 85% | 88% | 90% |

| | | | | |
|---|---|---|---|---|
| **BATTERY** | | | | |
| Battery Type | | 12V9Ah | 12V9Ah | 12V9Ah |
| Numbers | | 2 | 4 | 6 |
| Backup Time | | Long run unit depends on the capacity of externel batteries | | |
| Typical Recharging Time (Standard Mode) | | 4 hours recover to 90% capacity | | |
| Charging Voltage | | 27.4VDC±1% | 54.7VDC±1% | 82.1VDC±1% |
| Charging Current (Max.) | | 1A or 2A | 1A or 2A | 1A or 2A |
| **SYSTEM FEATURES** | | | | |
| Line Mode Battery Mode | Ambient Temp. <35 C | 105%~110%: UPS transfer to bypass after 10 minutes when the utility is normal<br>110%~130%: UPS transfer to bypass after 1 minute when the utility is normal<br>130%~150%: UPS transfer to bypass after 5 seconds when the utility is normal<br>>150%: UPS transfer to bypass immediately when the utility is normal | | |
| | 35℃ <Ambient Temp. <40℃ | 105%~110%: UPS transfer to bypass after 10 minutes when the utility is normal<br>110%~130%: UPS transfer to bypass after 1 minute when the utility is normal<br>>130%: UPS transfer to bypass immediately when the utility is normal | | |
| Short Circuit | | Hold whole system | | |
| Overheat | | Line mode: Switch to bypass; Back up mode: Shut down UPS immediately | | |
| Battery Low | | Alarm and switch off | | |
| EPO (Optional) | | Shut down UPS immediately | | |
| Audible & Visual Alarms | | Line failure, Battery low, Overload, System fault | | |
| Communication Interface | | USB, RS232, SNMP card (optional), Relay card (optional) | | |
| **PHYSICAL** | | | | |
| Dimension W x H x D (mm) | | 440 x 305 x 86.5 | 440 x 460 x 86.5 | 440 x 600 x 86.5 |
| Net Weight (kg) | | 11.3 | 19.1 | 26.2 |
| **ENVIRONMENT** | | | | |
| Operating Temperature | | 0~40 C | | |
| Storage Temperature | | -25 C~55 C | | |
| Humidity Range | | 20~90% RH @ 0~40 C (Non-Condensing) | | |
| Altitude | | <1500m | | |
| Noise Level | | Less than 50dBA at 1 meter | | |
| **STANDARDS** | | | | |
| Safety | | IEC/EN62040-1, IEC/EN60950-1 | | |
| EMC | | IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 | | |

## XRT Battery Pack

| MODEL | XRTBP15-U/RM | XRTBP3-U/RM |
|---|---|---|
| Battery Type | Sealed, Maintenance Free, Value Regulated, Lead Acid | |
| Typical Recharge Time | 6 - 8 hours (to 90% of full capacity) | |
| Typical Battery Life | 3 - 5 years, depending on discharge cycles and ambient temp | |
| System Voltage | 36Vdc | 72Vdc |
| Charging Current (Max) | 1.4A | |
| Battery Quantity | 6 | 12 |
| Capacity (Standard Unit) | 7Ah/9Ah (12V) | |
| Battery Cable Type | Premolded #12AWG | |
| **ENVIRONMENT** | | |
| Operating Temperature (Max) | 0 to 40 C | |
| Operating/Storage Humidity | 0~90% Non-Condesing | |
| **PHYSICAL** | | |
| Size - Net W x D x H (mm) | 440 x 430 x 86.5 | 440 x 720 x 86.5 |
| Weight - Net (kg) | 22.5 | 41.1 |

## Technical Specifications:

| MODEL | | XRT6000-U/RM | XRT10,000-U/RM |
|---|---|---|---|
| Capacity (VA) | | 6000VA | 10,000VA |
| **INPUT** | | | |
| Norminal Voltage | | 220/230/240Vac | |
| Operating Voltage Range | | 120~276 Vac | |
| Frequency Range | | 50Hz:45~55Hz ; 60Hz: 54~66Hz (Auto Sensing) | |
| Power Factor | | ≥0.99 | |
| Bypass Voltage Range | | Max. voltage: 220V: +25% (optional +10%, +15%, +20%)<br>230V: +20% (optional +10%, +15%)<br>240V: +15% (optional +10%)<br>Min. voltage: -45% (optional -20%, -30%) | |
| Bypass Frequency Range | | Frequency protection range: ±10% | |
| ECO Range | | Same as the bypass | |
| Harmonic Distortion (THDi) | | <3% (100% linear load) | |
| General Input | | Support | |
| **OUTPUT** | | | |
| Output Voltage | | 220/230/240Vac | |
| Power Factor | | 1 | |
| Voltage Regulation | | ±1% | |
| Frequency | Line Mode | ±1%/±2%/±4%/±5%/±10% of the rated frequency (optional) | |
| | Bat. Mode | 50/60 (±0.1) Hz | |
| Crest Factor | | 3:1 | |
| Harmonic Distortion (THDv) | | <2% with linear load | |
| | | <5% with non-linear load | |
| Efficiency | | <92% | <93% |
| **BATTERY** | | | |
| Battery Voltage | | ±96/108/120Vdc (optional) | |
| Capacity (Standard Unit) | | 12V~7Ah/9Ah | |
| Typical Recharging Time | | 6~8 hours (to 90% of full capacity) | |
| Charging Current | | 1A (Standard unit); Long run unit Max. current 10A<br>(charging current can be set according to battery capacity installed) | |

| SYSTEM FEATURES | | | | |
|---|---|---|---|---|
| Transfer Time | | Mains to battery: 0ms , Mains to bypass: 0ms | | |
| Overload | Line Mode | Load<110%: last 10min, <130%: last 1min, >130% turn to bypass made immediately | | |
| | Bypass Mode | 40A(Breaker) | 63A(Breaker) | 80A(Breaker) |
| Short Circiut | | Hold whole system | | |
| Overheat | | Line Mode: Turn to bypass, Bat. Mode: Shut down UPS immediately | | |
| Battery Low | | Alarm and switch off | | |
| Self-diagnostics | | Upon power on and software control | | |
| Battery | | Advanced battery management | | |
| Audible & Visual Alarms | | Line failure, Battery low, Overload, System fault | | |
| LED & LCD Display | | Line mode, Bat. mode, Eco mode, Bypass mode, Battery under voltage, Overload & UPS fault | | |
| LCD Display | | Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time | | |
| Communication Interface | | RS232, USB, SNMP card (optional), Parallel card (optional), Relay card (optional) | | |
| **ENVIRONMENT** | | | | |
| Operating Temperature | | 0 C~40 C | | |
| Storage Temperature | | -25 C~55 C | | |
| Humidity Range | | 0~95% (Non-condensing) | | |
| Altitude | | <1500m | | |
| Noise Level | | <55dB | | |
| **PHYSICAL** | | | | |
| Dimension W x D x H (mm) | | Standard model: 191 x 460 x 720 ; Long run model: 191 x 405 x 330 | | |
| Net weight (kg) | | Standard model: 60kg<br>Long run model: 11kg | Standard model: 61kg<br>Long run model: 12kg | |
| **STANDARDS** | | | | |
| Safety | | IEC/EN62040-1, IEC/EN60950-1 | | |
| EMC | | IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 | | |