AdPoS
Advanced Power Systems

# Mini-J RT Pro II

**(6 - 10 kVA)**

**The Mini-J RT Pro II series on-line double conversion UPS with minimized depth is an ideal solution for telecom application environment. An advanced Digital On-line double conversion UPS. The Mini-J RT Pro II includes industry leading green input power factor input harmonics and superior output power factor is perfect for mission critical applications.**

- Rack/Tower Convertible Design
- Advanced Digital Control Technology
- Double Conversion Online Technology
- Unity Input Power Factor
- Superior Output Power Factor Performance
- Simple Parallel Installation for 6/10Kva
- Emergency Shutdown Control through EPO
- Hot Swappable Battery
- Matching Battery Cabinet
- Extended Runtime Capability
- Powerful Built-in Charger
- Wide Input Voltage and Frequency Windows
- Programmable Receptacles
- Customer Options Slot
- Optional External Bypass Switch

*...principle safety*

# Mini-J RT Pro II

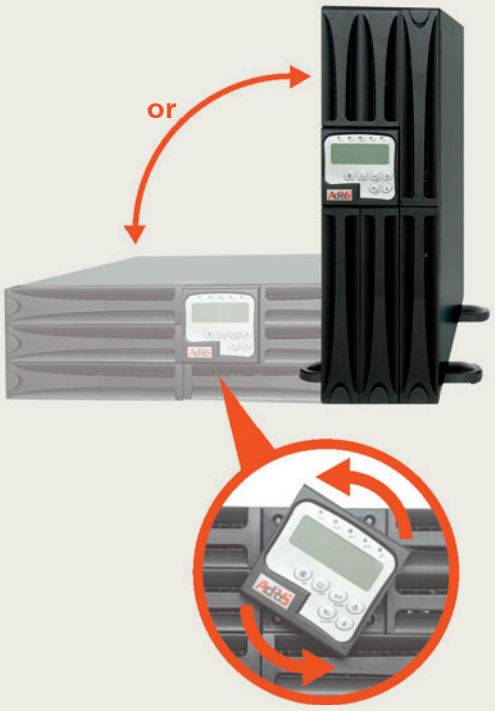
## (6 - 10 kVA)

### Unique Design for Telecom Application Environment

To fit into telecom application environment, the Mini-J RT Pro II is designed to be within 420~550mm depth, so as to be fitted into telecomm rack cabinets, which normally requires for maximum 600 mm depth.

### Rack/Tower Convertible Design

Enables integration into a wide variety of environments.

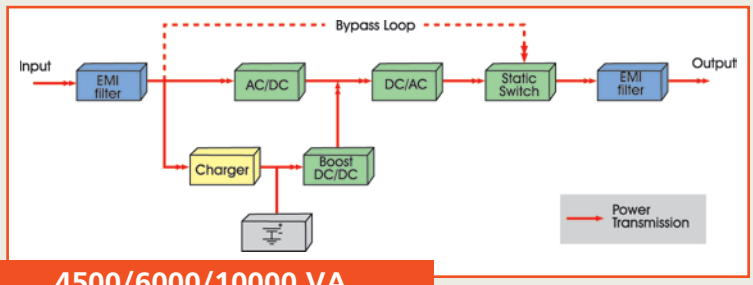



### Advanced Digital Control Technology

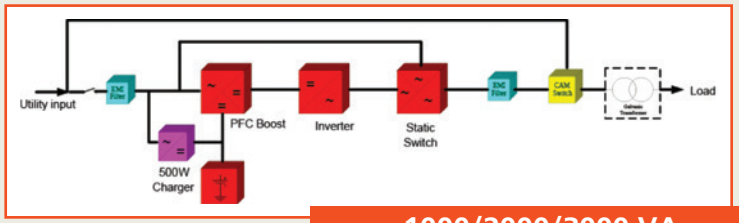
Achieves higher reliability and greater immunity from Utility power problems to the connected load.

### Double Conversion Online Technology

Completely re-generates the Utility power to correct power disturbances in the Mains. The unit provides clean AC power with voltage and frequency independent from the Utility. (VFI)




**4500/6000/10000 VA**




**1000/2000/3000 VA**

### Unity Input Power Factor

Meets today's industry standard for energy saving and low current harmonic pollution to the Utility.

### Superior Output Power Factor Performance

Meets tomorrow's demand today.

### Simple Parallel Installation for 6/10KVa

Increasing power capacity and configuring a parallel redundant UPS system up to 3 additional UPS are simply interconnected by using the CAN-bus RJ45 cables on the rear of the UPS.

### Emergency Shutdown Control through EPO

Allows users to shut down the UPS in emergency to ensure a safe operating environment.

### LCD display

Easy-to-read LCD display with compound keypads may not only provide UPS status but enhance functions such as the calibration, setting and service of the UPS.


### Hot Swappable Battery

Allows battery replacement without any interruption to the critical load.

### Matching Battery Cabinet

Standard matching battery cabinets are available to extend the UPS runtime easily to several hours.

## Extended Runtime Capability

Enables users to connect additional battery banks by simply plugging in the battery connectors between the UPS and battery banks without requiring additional chargers.

## Powerful Built-in Charger

Provides approximately 1.8A ~ 2.7A charging ability to re-charge internal battery to 90% in 3-5 hours. The charger may be put in the battery bank to extend battery runtime up to maximum required.

## For6~10 kVA

| | |
|---|---|
| AC Input Rang | 160 ~ 280 Vac, 45 ~ 65 Hz |
| Maximum Power Output | 1000W, continuously |
| Operation Mode | Constant Voltage with Power Limitaton |
| Maximum Parallel Units | Up to 4 Units |
| Protections | Over-temperature, Over-voltage,<br>Against output short-circuit<br>& isolated devices for opposite polarity connection |
| Mounting | Mounted on the rear of the battery bank or the wall |
| Dimension (WxHxD) mm | 166x282x86 |
| Net Weight (kgs) | 3.2 |

## Customer Options Slot

Allows further flexibility in Network configuration. An internal 2nd RS232, USB, WEB/SNMP card or Dry Contact card provides isolated contacts for industrial and remote alarm panel application.

## Optional External Bypass Switch

Ensures continuous supply of power to the critical load in the event of electronic failure, overload, over-temperature, or scheduled maintenance.

| Model | Rating | AC Input Plug | Connect to UPS Input | Connection to UPS Output & cord length | Output Receptables/protection |
|---|---|---|---|---|---|
| RacPDU-216G | 230 V<br>3 kVA | IEC C20 (16A) | IEC C19(16A) | IEC C20<br>* 1 Attached 6-foot cord | IEC C13(10A)<br>* 6 with 10 A circuit breaker<br>IEC C19(16A)<br>* 1 with 16 A circuit breaker |

## Parallel Distribution Boxes

| Model | Description | Dimension (WxHxDmm) | Application |
|---|---|---|---|
| RacPDU-230 | Max. 30A | 326x88x100 | Max. 1pce 6 Kva |
| RacPDU-260 | Max. 60A | 440x176x124 | Max. 2 pcs 6 Kva or 1 pce 10 Kva |
| RacPDU-2120 | Max. 120A | | Max. 4 pcs 6 Kva or 2 pcs 10 Kva |
| RacPDU-2200 | Max. 200A | | Max. 4pcs 10 Kva |

## Communication Capability

The bundled communication software allows the control of the UPS and graceful shutdown when Utility Fails

Users can:

- Remotely test the major operating functions of the UPS.
- Communicate via SNMP/Web/Network adapter.
- Access UPS functions via the web.
- Alert users via SMS messages against specific events.

# Mini-J RT Pro II

## (6 - 10 kVA)

| Input Data | | |
|---|---|---|
| **INPUT** | **6000** | **10000** |
| Voltage(Vac) | 160~280** | |
| Frequency(Hz) | 50/60 +/-5Hz(Auto Sensing) | |
| Phase | Single phase with ground | |
| Input Power Factor | >0.99(Full Load) | |
| Current THD(100% linear Load) | <6% | |
| **OUTPUT** | | |
| Voltage(Vac) | 200/208/220/230/240 selectable | |
| Voltage Regulation | +/-2% | |
| Capacity | 6000/4800 | 10000/8000 |
| Rated Power Factor | 0.8 lagging | |
| Waveform | Sine Wave, THD <3%(no load to full load) | |
| Frequency Stability | +/-0.1% (Free Running) | |
| Frequency Regulation | +/-1Hz or +/-3Hz | |
| Transfer Time | 0ms | |
| Crest Factor | 3:1 | |
| Efficiency(AC to AC, Normal) | > 90% | |
| Autonomy | > 8 min. | |
| Efficiency(AC to AC, ECO) | UP to 95% | |
| DC Start | Yes | |
| **BATTERY** | | |
| Type | Sealed Lead Acid Maintenance Free | |
| Capacity | 12V/9AH | |
| Quantity | 20 | |
| Voltage | 240 | |
| Recharge Time | 4-5 hours to 90% | |
| Buil+-m Charger(max. Charging current) | 1.8 A | |
| **DISPLAY** | | |
| LCD | N/A | |
| LED+LCD | Input Voltage Input Frequency, Output Voltage,<br>Output Frequency, Load Percentage,<br>Battery Voltage & Inner Temperature, etc. | |
| Self-Diagnostics | Upon Power on, front panel setting & software<br>control, 24-hour routine checking | |
| **ALARMS** | | |
| Audible and Visual | Line Failure, Battery Low, Overload, System Fault...etc. | |
| **PROTECTION** | | |
| Overload<br>AC Mode & Backup Mode | 105%~150% for 160 seconds~2 cycles<br>before switching bypass<br>Buzzer continuously alarm | |
| Bypass Mode | 105%~200% for 500 seconds ~ 8 cycles<br>before stopping supply load<br>Buzzer continuously alarm | |
| Short Circuit | Hold whole System | |
| Overheat | AC Mode: Switch to Bypass<br>Backup Mode: Switch off the UPS | |
| Battery Low | Alarm and Switch Off | |
| EPO | UPS shuts down immediately | |
| Battery | N/A | |
| Noise Suppression | 300 joules | |
| Heat Dissipation (at full linear load)* | <450W | <600W |

| Model | 6000 | 10000 |
|---|---|---|
| Leakage Current | ≤ 3.5mA | |
| **PHYSICAL** | | |
| Dimension WxHxDmm | 440x132 (3HU) x550 | 440x132 (3HU) x680 |
| Input Connection | Hardwire | |
| Outlets | Hardwire | |
| Net Weight (kgs) | 17.5 | 26 |
| **ENVIRONMENT** | | |
| Operating Temperature | 0°C~40°C | |
| Temperature Warning | The battery design life is based on a temperature of 25°C, Ambient temperature above this range will reduce battery life | |
| Altitude | 0~2000m up to 40°C, 3000m up to 35°C | |
| Humidity | 90% RH Maximum, Non-Condensing | |
| Noise | <50dB(at1 meter) | |
| **COMPUTER INTERFACE** | | |
| Interface Type | Standard RS232 Interface | |
| Communication Slots | 2nd RS232, USB, RS485, Relay Contact, SNMP/WEB Card, etc. | |
| Compatible Platforms | Windows 95/98/NT/2000/XP/Vista, Novell Netware, Linux, etc. | |
| **SAFETY CONFORMANCE** | | |
| Quality Assurance | ISO9001 Certified Company | |
| Safety Standard | EN62040-1-1 | |
| EMC Standard | EN62040-2, EN61000-3-2, EN61000-3-3 | |
| Marks | CE | |

| Model | Battery Type | Maximum Quantity (pcs) | Without Batteries (kgs) | With Batteries (kgs) | Dimension (WxHxD) mm |
|---|---|---|---|---|---|
| BBC12K4U009 | 9 AH | 12 | 8.0 | 38.0 | 440x176 (4HU)x420 |
| BBC20N4U009 | 9 AH | 20 | 18.0 | 68.0 | 440x176 (4HU) x550 |

AdPoS
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**AdPoS Advanced Power Systems GmbH & Co. KG**

Pfaffensee 2 • D-91301 Forchheim

Tel. +49 (0) 91 91 / 70 05 - 0 • Fax +49 (0) 91 91 / 70 05 - 20

info@adpos-ups.de • www.adpos-ups.de

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