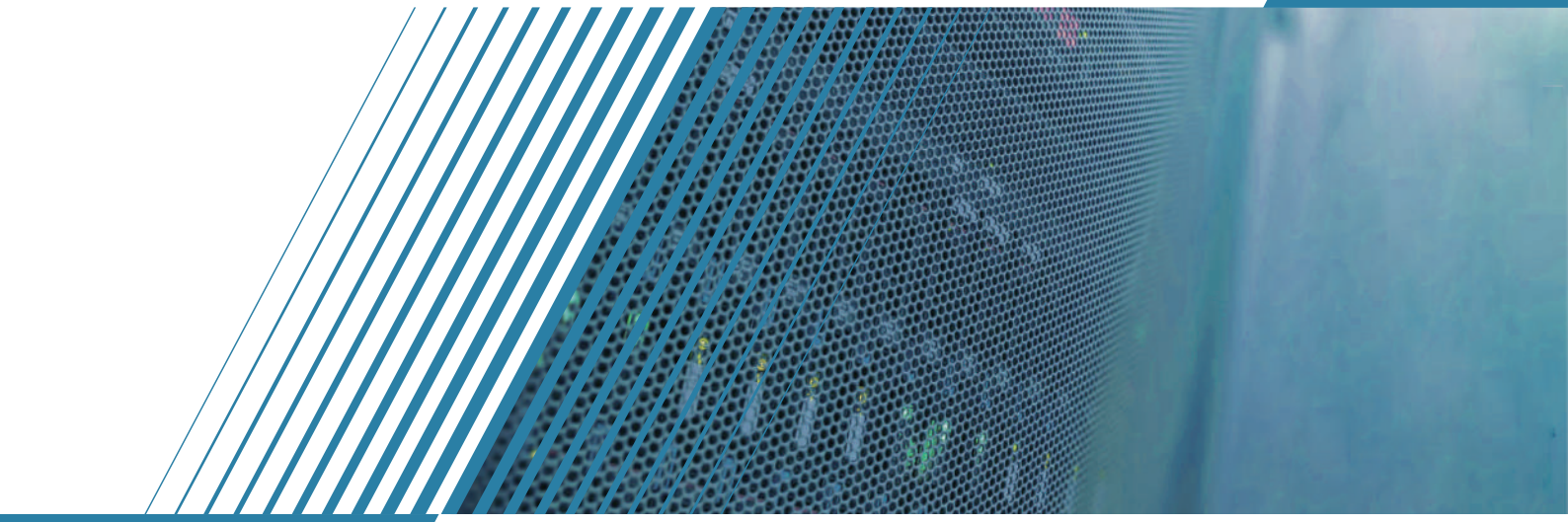
ATENCO POWER TECH CO. LTD



*Solutions behind the power*

1:1

**95.5%**
Online (VFI) efficiency*

**15A**
Maximum charger current*

**3-Level**
IGBT Inverter

**PF=1.0**
kVA=kW

**LFP & VRLA**
Lithium or lead-acid battery

**4× (N+X)**
Parallel Redundancy 6/10kVA

# Unity Power. 3-Level IGBT.

3-Level IGBT inverter for cleaner, lower-loss power ・ Up to 95.5% online efficiency ・ 15A* Charger ・ LFP & VRLA battery ・ Dual input source (Optional)

PF=1.0 ・ Input PF ≥0.99 ・ THDi ≤3% ・ 0 ms transfer ・ 40-70Hz ・ 110-300 Vac ・ ECO up to 98% ・ N+X=4 (6/10kVA) ・ Dual card slots

## Applications

VFI TYPE ON LINE | Rack/Tower | Datacenter | Finance | E-Medical | Industry | Transport | Education

**RM11E PRO** is ATENCO's high-end 2U rack/tower VFI UPS built on **three-level IGBT** for cleaner, lower-loss power. It delivers **PF 1.0** output with **up to 95.5% online efficiency** (ECO up to 98%) to cut heat, noise, and operating cost. A wide **110-300** Vac input, **low THDi (≤3%)**, and **0 ms transfer (AC↔BAT, INV↔BYP)** protect sensitive servers for edge IT applications, including operation on generator power.

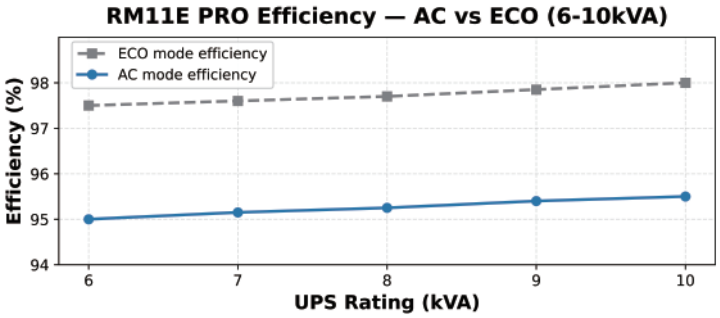
Battery-flexible by design, the **15A fast charger** speeds recovery and supports both **LFP and VRLA** strings. scalable redundancy **N+X up to 4 units**, with smart fan control for quiet operation. **Dual intelligent slots** plus rich I/O (USB/RS-232/485, EPO) streamline remote monitoring, integration, and lifecycle management.

*Performance may vary by configuration and environment, charger size is based on offered model.*

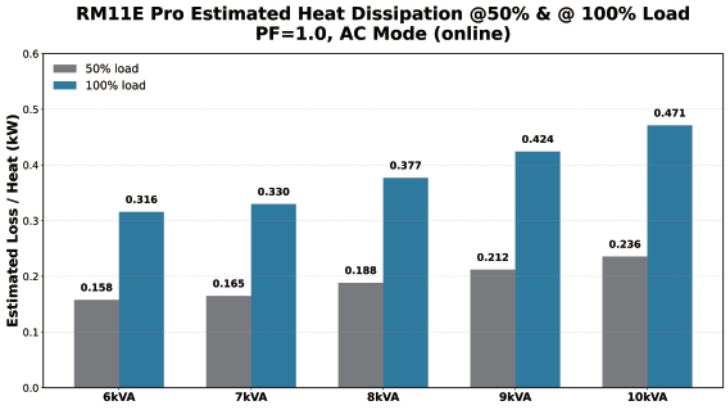
SCAN THE CODE TO LEARN MORE

# RM11E PRO Features

- 2U rack/tower chassis with **rotatable 3.5" LCD/HMI**
- **Dual intelligent slots** (cards optional); USB/RS-232/ RS-485/EPO, dry contacts
- **Selectable output** 208/220/230/240 Vac; **40-70Hz** auto-sensing
- **Dual input source** (optional); generator-friendly with surge/EMI filtering
- **Cold start; auto self-test** at startup
- **Intelligent fan control** for low acoustics
- **Protection suite**: short-circuit, overload, over-temp, battery over/under-voltage, fan fault alarms
- **Signals**: PDU signal / battery temperature / battery group signal




# Performance




- **PF=1.0 output** (kVA=kW)
- **3-Level IGBT** online double-conversion (full digital control)
- **Up to 95.5% online efficiency; ECO up to 98%**
- **Input PF ≥0.99; THDi ≤3%**
- **0 ms transfer** (AC↔BAT, INV↔BYP)
- **±1% voltage regulation; crest factor 3:1**
- **Low noise**: <45 dB (6kVA), <50 dB (10kVA)

*Internal battery (up to 16×9Ah) is SKU-specific based on ATENCO official offers.*
*Lithium pack certifications depend on the selected pack/vendor.*

# Optional Accessories

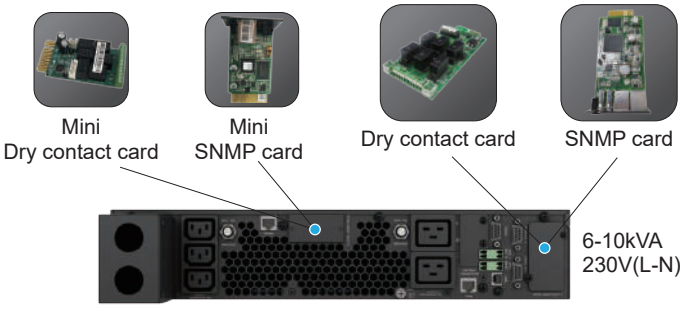
- **SNMP / Modbus-TCP / Relay** cards (dual-slot)
- **Parallel kit** (6/10kVA)
- **External maintenance bypass** box
- **VRLA/LFP battery cabinets** with cabling kits
- **Rack PDUs / Rail kits**

*Options (cards, dual-input, parallel kit, bypass, larger charger, PDUs, accessories) are not standard.*

The LCD panel can be rotated
(Touch screen is gravity sensing)

Multifunctional bracket

Rail Kit

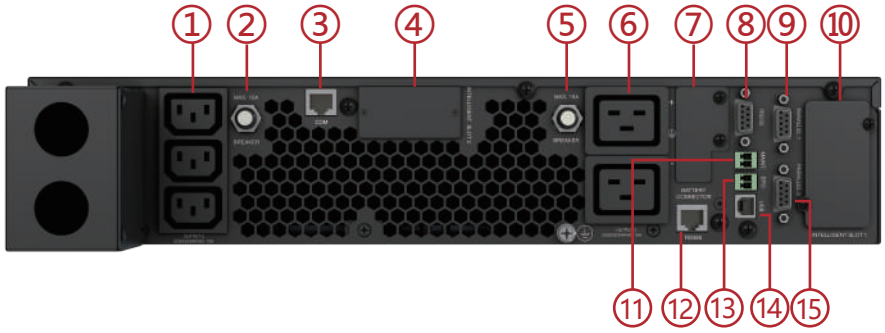



*Note: Specifications are model-specific. Optionals (e.g., parallel kit, bigger charger, communications cards, accessories) are not supplied by default and vary by SKU/order.*
*Final deliverables and configurations are defined only by ATENCO's formal quotation and the customer's confirmed model/options.*

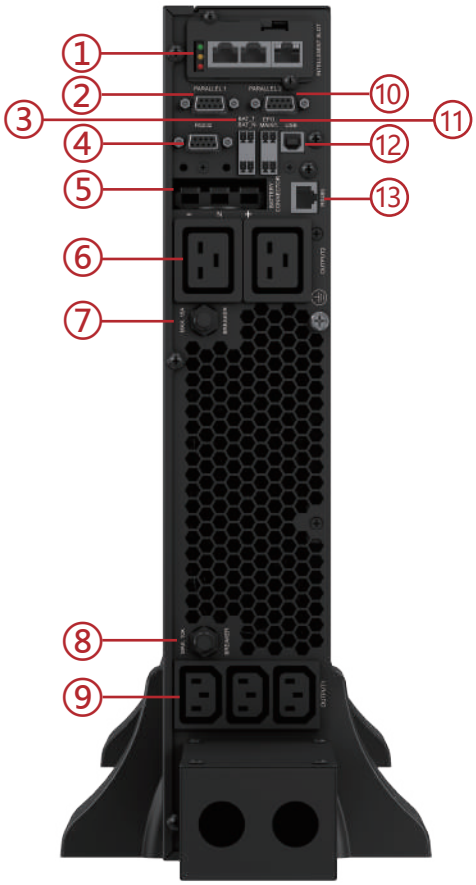
# Rear Panel

## RM11E-PRO 6-10kVA-2U

### Option 1




### Option 2



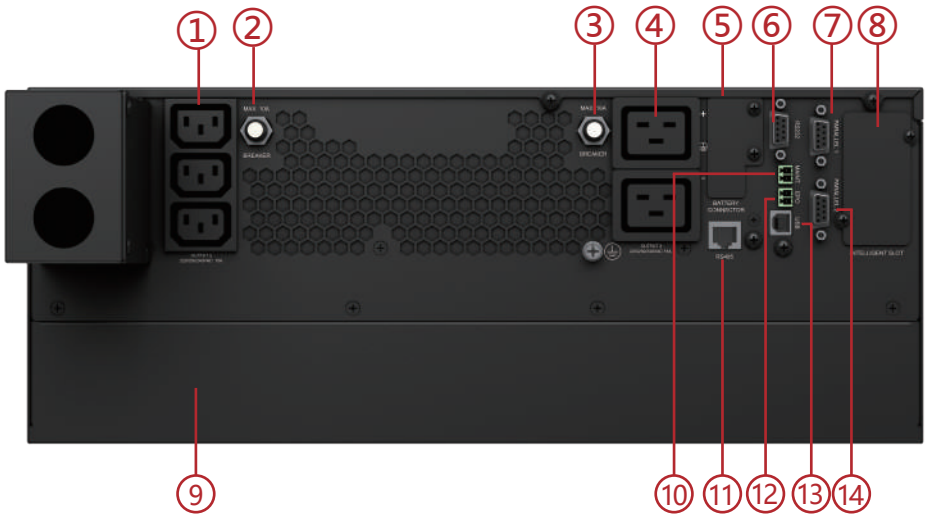

### Option 1

1. Output 2 (220/230/240VAC 10A)
2. Breaker (Max.10A)
3. Communication Port
4. Intelligent Slot 2
5. Breaker (Max.16A)
6. Output 3 (220/230/240VAC 16A)
7. Battery Connector
8. RS232
9. Parallel 1
10. Intelligent Slot 1
11. MAINT
12. RS485
13. EPO
14. USB Port
15. Parallel 2

### Option 2

1. Intelligent Slot
2. Parallel 1
3. BAT_T/BAT_N
4. RS232
5. Battery Connector
6. Output 2
7. Breaker (Max.16A)
8. Breaker (Max.10A)
9. Output 1
10. Parallel 2
11. EPO & MAINT
12. USB Port
13. RS485

## RM11E-PRO 6-10kVA-4U




1. Output 2 (220/230/240VAC 10A)
2. Breaker (Max.10A)
3. Breaker (Max.16A)
4. Output 3 (220/230/240VAC 16A)
5. Battery Connector
6. RS232
7. Parallel 1
8. Intelligent Slot
9. Internal Battery Space
10. MAINT
11. RS485
12. EPO
13. USB Port
14. Parallel 2

*Note:*
*EPO: Emergency Power Off*
*MAINT: Maintenance Bypass Senser - Dry-contact input*
*BAT_T/BAT_N: Battery Sensor*

# RM11E PRO Technical Specifications

ATENCO POWER TECH CO. LTD

| | | RM11E PRO Series | |
|---|---|---|---|
| **Model** | | **RM11E-6K-PRO-S-LI<br>RM11E-6K-PRO-L-LI** | **RM11E-10K-PRO-S-LI<br>RM11E-10K-PRO-L-LI** |
| Capacity | | 6000VA/6000W | 10000VA/10000W |
| INPUT | | | |
| Nominal voltage | | 208/220/230(Default)/240Vac | |
| Input voltage range | | 110~300Vac (110~176Vac@50% load/176~300Vac@100% load) | |
| Input frequency range | | 40~70Hz (50/60Hz Auto-Sensing) | |
| Harmonic distortion(THDi) | | ≤3% | |
| Power factor | | ≥0.99 | |
| Input Connection | | HW terminal (L+N+G) | |
| Bypass voltage range | | Max.voltage: 208/220Vac: +25% (Optional +10%, +15%, +20%)<br>230V: +20% (Optional +10%, +15%)<br>240V: +15% (Optional +10%)<br>Min.voltage: −45% (Optional -10%,−20%, −30%) | |
| OUTPUT | | | |
| Output voltage | | 208/220/230(Default)/240Vac | |
| Voltage regulation | | ±1% | |
| Output connection | Programmable | C19*2+C13*3 | |
| | Non-programmable | HW terminal (L+N+G) | |
| Power factor | | 1.0 | |
| Output frequency | Online mode | ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional) | |
| | Battery mode | (50/60±0.1%)Hz | |
| Crest factor | | 3:1 | |
| Harmonic distortion (THDv) | | ≤1% Linear load<br>≤3% Non linear load | |
| Transfer time | AC mode to Bat.mode | 0ms | |
| | Inverter to Bypass | 0ms | |
| Output waveform | | Pure Sinewave | |
| Overload | Online mode | Load≤110%, last 60min; ≤125%, last 10min; ≤150%, last 1min; >150%, turn to bypass mode immediately | |
| | Battery mode | Load≤110%, last 10min; ≤125%, last 1min; ≤150%, last 10 second; >150%, 0.2 second shut down | |
| | Bypass mode | 105%≤load≤130%,only overload alarm; ≤150%, last 10min; ≤200%,last 1min; >200%, 0.2 second shut down | |
| Efficiency | Online mode | Up to 95% | Up to 95.5% |
| | ECO mode | Up to 97.5% | Up to 98% |
| BATTERY | | | |
| Battery voltage | VRLA battery | 192/216/240Vdc (Settable) | |
| | Lithium battery | 192Vdc | |
| Charging current (Max.) | | 12A (15A optional) | 15A |
| | | Charging current adapts to the battery type and battery capcacity | |
| INDICATORS | | | |
| LED display | | Online mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault | |
| LCD display | | Input voltage, Input frequency, Output voltage, Output frequency, Load percentage,<br>Battery voltage, Inner temperature & Remaining battery backup time | |
| ALARM | | | |
| Battery mode | | Beeping every 4 seconds | |
| Battery low | | Beeping every second | |
| Overload | | Beeping twice every second | |
| Fault | | Continously beeping | |
| PHYSICAL | | | |
| Dimension W×D×H | | 440×621.5×86.5mm | |
| Net weight | | 15.4kg | 17kg |
| ENVIRONMENT | | | |
| Operating temperature | | 0℃~40℃ | |
| Storage temperature | | -25℃~55℃ | |
| Humidity range | | 0～95%RH @ 0～40℃ (Non condensing) | |
| Altitude | | ＜1500m, derating required when＞1500m | |
| Noise level* | | ＜45dB at 1 Meter | ＜50dB at 1 Meter |
| STANDARDS | | | |
| Safety | | CB: IEC 62040-1:2017, CE-LVD: EN 62040-1:2008+A1:2013 | |
| EMC | | IEC 62040-2-2016, EN 62040-2-2018 C2 | |
| Performance | | IEC/EN 62040-3 | |

# RC N 6-10kVA battery pack specification

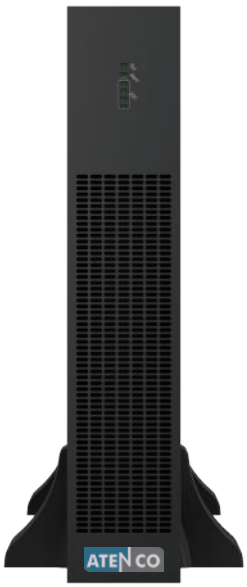
| | Rack Cabinet (Lead Acid) | |
|---|---|---|
| **Model** | **RC16192N / RC16192EL / RC16192EL-B** | **RC20240N-EL / RC20240N-EL-B** |
| BATTERY SYSTEM | | |
| Battery type | VRLA (Lead acid maintenance free battery) | |
| Typical battery recharging time | 4 hours (To 90% of full capacity) | |
| Typical battery life | 3～5 years, depend on discharing cycle and ambient temperature | |
| System voltage | 192Vdc | 240Vdc |
| Battery quantity | 1×16 PCS | 1×20 PCS |
| Capacity | 7Ah/9Ah (12V) | |
| PHYSICAL | | |
| Dimension W×D×H | 440×671.5×131mm(3U) | |
| Net weight | 48kg/53kg | 58kg/63kg |
| ENVIRONMENT | | |
| Operating environment | 0˚C~40˚C | |
| Relative humidity | 0~95% (Non condensing) | |
| Noise level | ＜40dB at 1 Meter | |
| STANDARDS | | |
| Safety | UL1778 5th Edition CSA C22.2 NO.107.3-14<br>CB: IEC 62040-1:2017, CE-LVD: EN 62040-1:2008+A1:2013 | |

Model remark: RC16192N-B, "RC" means Rack Cabinet; "16" means battery number inside the Rack;
"192" means the battery system voltage; "N" means battery with neutral connection; "B" means the cabinet with internal battery.


# RC Li 6-30kVA battery pack specification

| | Rack Cabinet (Lithium) |
|---|---|
| **Model** | **RC192S12-LI** |
| BATTERY SYSTEM | |
| Battery type | $LiFePO_4$ |
| Typical battery recharging time | 4 hours (To 90% of full capacity) |
| Typical battery life | 8～10 years, depend on discharing cycle and ambient temperature |
| Cell voltage | 3.2Vdc |
| Cell capacity | 3Ah |
| Cell series/parallel connections | 60S4P |
| System voltage | 192Vdc |
| System capacity | 12Ah |
| PHYSICAL | |
| Dimension W×D×H | 440×684×86.5mm(2U) |
| Net weight | 33kg |
| ENVIRONMENT | |
| Operating environment | 0˚C~40˚C |
| Relative humidity | 0~95% (Non condensing) |
| Noise level | ＜40dB at 1 Meter |
| STANDARDS | |
| Safety | IEC62619, UL1973<br>UL1778 5th Edition CSA C22.2 NO.107.3-14<br>CB: IEC 62040-1:2017, CE-LVD: EN 62040-1:2008+A1:2013 |
| Transportation | UN38.3 |

Model remark: RC192S12-LI, "RC" means Rack Cabinet; "192" means the battery system voltage;
"S" means no battery neutral system; "12" means battery capacity; "Li" means Lithium-ion battery.



*Disclaimer: Products are continuously improved and updated. As a result, actual product specifications may differ from promotional or technical materials due to asynchronous revisions. This document is provided for reference only and does not constitute an offer, warranty, or commitment.*

ATENCO POWER TECH CO. LTD

2 F.-7, No. 14, Xiwei St., Sanchong Dist., New Taipei City 241707, Taiwan
TEL：+886-2-2280-6939 info@atenco.com.tw
FAX：+886-2-2290-2939 www.atenco.com.tw