

**RT 6-10K****RT 1-3K**

## FEATURES

# INNOVA RT HV 1-10KVA UPS

**HIGH POWER  
DENSITY  
RACK-TOWER  
2-IN-1 TRUE  
DOUBLE CON-  
VERSION  
ONLINE UPS**

- DSP Control
- 0.9 Output Power Factor
- Wide Input Range
- High Efficiency Mode(ECO)
- Frequency Converter Mode
- Input THDi<5%
- Output Voltage Regulation <1%
- Output THDv<2%
- Fan Speed Control
- Compact Design
- Extendable Run Time
- Dual input (for 6-10KVA)
- Power Management Software
- Multiple Communication Ports
- Optional SNMP & Relay Cards
- Temperature Compensation
- PDU(for 6-10KVA)
- 1+1 Parallel for 6-10KVA

**CENTRALION INDUSTRIAL INC**

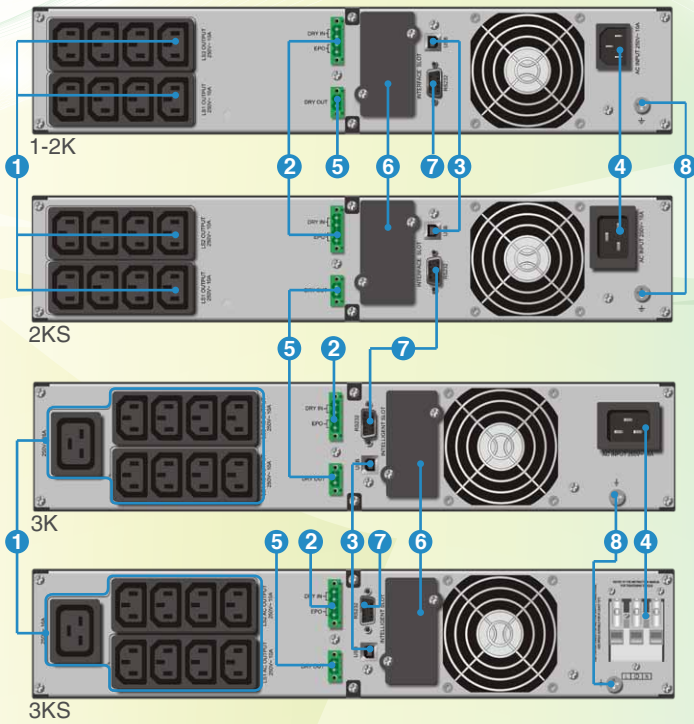
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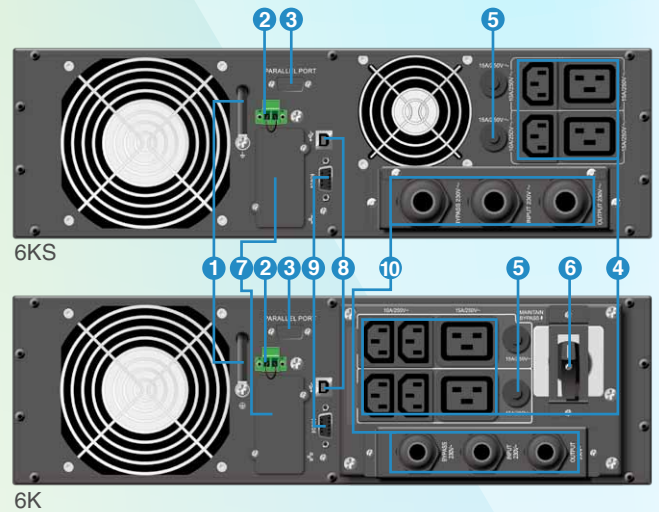
## 1-3K REAR PANEL DESCRIPTION



1. AC OUTPUT
2. EPO/Dry-Contact Input Port
3. USB Port
4. AC Input
5. Dry-Contact Port
6. Intelligent Slot
7. RS232 Port
8. Earth Line Port

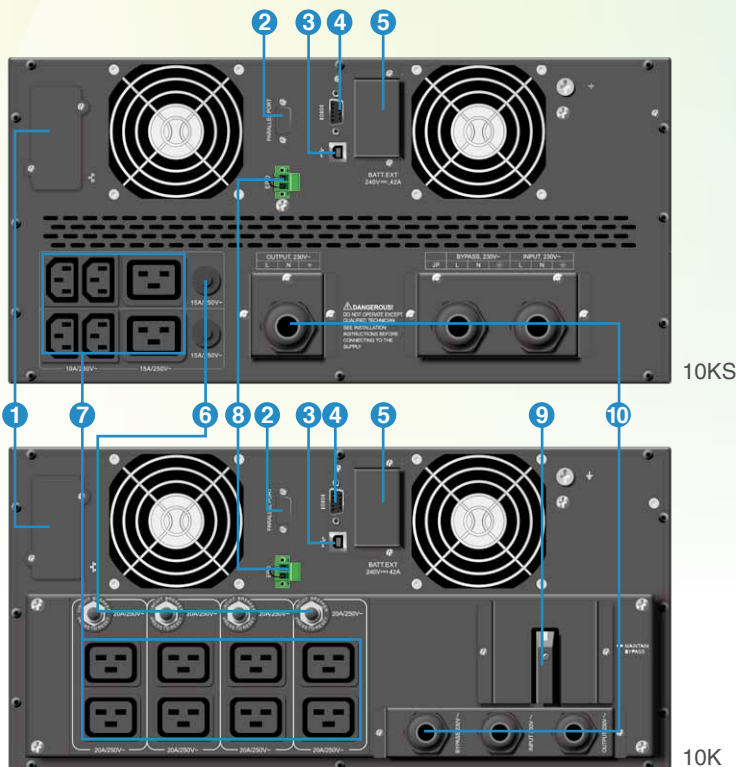
## 6K REAR PANEL DESCRIPTION

1. Ground Screw
2. REPO Port
3. Parallel Port (Optional)
4. Output Socket
5. Output Circuit Breaker
6. Maintenance Bypass Switch
7. Intelligent Slot
8. USB Port
9. RS-232 Port
10. Input/Output Terminal Block



## 10K REAR PANEL DESCRIPTION

1. Intelligent Slot
2. Parallel Port (Optional)
3. USB Port
4. RS-232 Port
5. External Battery Connector
6. Output Circuit Breaker
7. Output Socket
8. REPO Port
9. Maintenance Bypass Switch
10. Input/Output Terminal Block



| MODEL         |                                |           | Innova<br>RT 1K                                                                                            | Innova<br>RT 1KS                             | Innova<br>RT 1.5K     | Innova<br>RT 1.5KS                           | Innova<br>RT 2K       | Innova<br>RT 2KS                             | Innova<br>RT 3K | Innova<br>RT 3KS                             |
|---------------|--------------------------------|-----------|------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------|----------------------------------------------|-----------------------|----------------------------------------------|-----------------|----------------------------------------------|
| CAPACITY      | VA/W                           |           | 1000VA/900W                                                                                                |                                              | 1500VA/1350W          |                                              | 2000VA/1800W          |                                              | 3000VA/2700W    |                                              |
| INPUT         | Voltage Range                  |           | 120~276VAC Depends on Load Level                                                                           |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Frequency Range                |           | 45-55Hz / 54-66Hz                                                                                          |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Phase                          |           | Single Phase with Ground                                                                                   |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | THDI                           |           | < 5% with Full Load                                                                                        |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Power Factor                   |           | ≥ 0.99@R Full Load                                                                                         |                                              |                       |                                              |                       |                                              |                 |                                              |
| OUTPUT        | Voltage                        |           | 208/220/230/240VAC                                                                                         |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Voltage Regulation             |           | ±1%                                                                                                        |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Frequency (Synchronized Range) |           | 45-55Hz/54-66Hz                                                                                            |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Frequency(BAT Mode)            |           | 50/60Hz±0.2Hz                                                                                              |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Current Crest Ratio            |           | 3:1                                                                                                        |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Harmonic Distortion            |           | ≤ 2% @Linear Load                                                                                          |                                              |                       |                                              |                       |                                              |                 |                                              |
|               |                                |           | ≤ 5% @Non-linear Load                                                                                      |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Output Waveform                |           | Pure Sine Wave                                                                                             |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Overload Capacity              | Line Mode | 12s @102%-130% Load<br>1.5s @130%-150% Load<br>100ms@>150% Load                                            |                                              |                       |                                              |                       |                                              |                 |                                              |
| BAT Mode      |                                |           |                                                                                                            |                                              |                       |                                              |                       |                                              |                 |                                              |
| EFFICIENCY    | Line Mode                      |           | >88%                                                                                                       |                                              |                       |                                              | >89%                  |                                              | >92%            |                                              |
|               | BAT Mode                       |           | >83%                                                                                                       |                                              |                       |                                              | >83%                  |                                              | >86%            |                                              |
|               | ECO Mode                       |           | >95%                                                                                                       |                                              |                       |                                              | >95%                  |                                              | >95%            |                                              |
| BATTERY       | Number of Batteries            |           | 3                                                                                                          | Depend on The Capacity of External Batteries | 4                     | Depend on The Capacity of External Batteries | 4                     | Depend on The Capacity of External Batteries | 6               | Depend on The Capacity of External Batteries |
|               | Battery Type                   |           | 12V/7.2Ah                                                                                                  |                                              | 12V/7.2Ah             |                                              | 12V/9Ah               |                                              | 12V/9Ah         |                                              |
|               | Backup Time                    |           | >5 Minutes                                                                                                 |                                              | >5 Minutes            |                                              | >5 Minutes            |                                              | >5 Minutes      |                                              |
|               | Recharge Time                  |           | 3 Hours to 90%                                                                                             |                                              | 3 Hours to 90%        |                                              | 3 Hours to 90%        |                                              | 3 Hours to 90%  |                                              |
|               | Charging Current(max)          |           | 1.5A                                                                                                       |                                              | 6A                    |                                              | 1.5A                  |                                              | 6A              |                                              |
| TRANSFER TIME | LINE <--> BAT                  |           | 0ms                                                                                                        |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | INV <--> BYPASS                |           | 0ms                                                                                                        |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | INV -->ECO                     |           | 1ms                                                                                                        |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | ECO --> INV                    |           | <10ms                                                                                                      |                                              |                       |                                              |                       |                                              |                 |                                              |
| INDICATOR     | LCD                            |           | Load Level/Battery Voltage/Battery Mode/AC Mode/Bypass Mode Information                                    |                                              |                       |                                              |                       |                                              |                 |                                              |
| AUDIBLE ALARM | BAT Mode                       |           | Sounding Every 4 Seconds                                                                                   |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Low Battery                    |           | Sounding Every Second                                                                                      |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Fault                          |           | Continuously Sounding                                                                                      |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Overload                       |           | Sounding Twice Every Second                                                                                |                                              |                       |                                              |                       |                                              |                 |                                              |
| DIMENSION     | Rack Case(WxHxD)mm             |           | 438×86.5×436                                                                                               |                                              |                       |                                              |                       |                                              | 438×86.5×608    |                                              |
| ENVIRONMENT   | Operation Environment          |           | 0-40℃                                                                                                      |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Relative Humidity              |           | 0-95%（Non-Condensing）                                                                                      |                                              |                       |                                              |                       |                                              |                 |                                              |
| INTERFACE     | Noise Level                    |           | <45dB @ Front 1 Meter                                                                                      |                                              | <45dB @ Front 1 Meter |                                              | <50dB @ Front 1 Meter |                                              |                 |                                              |
|               | RS232/USB                      |           | Software Supports Windows Family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGIIRIX, FreeBSD, HP-UX, MAC |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | Intelligent Slot               |           | SNMP/AS400/Relay Card                                                                                      |                                              |                       |                                              |                       |                                              |                 |                                              |
|               | EPO                            |           | Emergency Power Off                                                                                        |                                              |                       |                                              |                       |                                              |                 |                                              |

# INNOVA RT 6-10KVA UPS SPECIFICATION

| MODEL                          |                        |                       | Innova RT 6K                                                                                               | Innova RT 6KS                                | Innova RT 10K  | Innova RT 10KS                               |
|--------------------------------|------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------|----------------------------------------------|
| CAPACITY                       | VAW                    |                       | 6000VA/5400W                                                                                               |                                              | 10000VA/9000W  |                                              |
| INPUT                          | Voltage Range          |                       | 120~276VAC                                                                                                 |                                              |                |                                              |
|                                | Frequency Range        |                       | 45-55Hz / 54-66Hz                                                                                          |                                              |                |                                              |
|                                | Phase                  |                       | Single Phase with Ground                                                                                   |                                              |                |                                              |
|                                | THDI                   |                       | < 5% with full load                                                                                        |                                              |                |                                              |
|                                | Power Factor           |                       | ≥ 0.99@R full load                                                                                         |                                              |                |                                              |
|                                | OUTPUT                 | Voltage               |                                                                                                            | 208/220/230/240VAC                           |                |                                              |
| Voltage Regulation             |                        | ±1%                   |                                                                                                            |                                              |                |                                              |
| Frequency (Synchronized Range) |                        | 45-55Hz/54-66Hz       |                                                                                                            |                                              |                |                                              |
| Frequency (BAT Mode)           |                        | 50/60Hz±0.1Hz         |                                                                                                            |                                              |                |                                              |
| Current Crest Ratio            |                        | 3:1                   |                                                                                                            |                                              |                |                                              |
| Harmonic Distortion            |                        | ≤ 2% @Linear load     |                                                                                                            |                                              |                |                                              |
|                                |                        | ≤ 5% @Non-linear load |                                                                                                            |                                              |                |                                              |
| Output Waveform                |                        | Pure Sine Wave        |                                                                                                            |                                              |                |                                              |
| Overload Capacity              |                        | Line Mode             | 2min @102% ~ 130%<br>30s @130%~150%<br>100ms @>150%                                                        |                                              |                |                                              |
|                                |                        | BAT Mode              | 10s @102% ~ 130%<br>100ms @>130%                                                                           |                                              |                |                                              |
| EFFICIENCY                     | Line Mode              |                       | >92%                                                                                                       |                                              | >93%           |                                              |
|                                | BAT Mode               |                       | >89%                                                                                                       |                                              | >90%           |                                              |
|                                | ECO Mode               |                       | >96%                                                                                                       |                                              | >97%           |                                              |
| BATTERY                        | Number of Batteries    |                       | 15                                                                                                         | Depend on the capacity of external batteries | 20             | Depend on the capacity of external batteries |
|                                | Battery Type           |                       | 12V/5Ah                                                                                                    |                                              | 12V/9Ah        |                                              |
|                                | Backup Time            |                       | >2.5minutes                                                                                                |                                              | >3.5minutes    |                                              |
|                                | Recharge Time          |                       | 3 hours to 90%                                                                                             |                                              | 3 hours to 90% |                                              |
|                                | Charging Current (max) |                       | 1.0A                                                                                                       | 8.0A                                         | 1.7A           | 8.0A                                         |
| TRANSFER TIME                  | LINE<--> BAT           |                       | 0ms                                                                                                        |                                              |                |                                              |
|                                | INV <--> BYPASS        |                       | 0ms                                                                                                        |                                              |                |                                              |
|                                | INV-->ECO              |                       | 1ms                                                                                                        |                                              |                |                                              |
|                                | ECO--> INV             |                       | <10ms                                                                                                      |                                              |                |                                              |
| INDICATOR                      | LCD                    |                       | Load level/Battery voltage/Battery Mode/AC Mode/Bypass Mode Information                                    |                                              |                |                                              |
| AUDIBLE ALARM                  | BAT Mode               |                       | Sounding every 4 seconds                                                                                   |                                              |                |                                              |
|                                | Low Battery            |                       | Sounding every second                                                                                      |                                              |                |                                              |
|                                | Fault                  |                       | Continuously sounding                                                                                      |                                              |                |                                              |
|                                | Overload               |                       | Sounding twice every second                                                                                |                                              |                |                                              |
| DIMENSION                      | Rack Case(WxHxD)mm     |                       | 438x129x594                                                                                                | 438x129x594                                  | 438x215.5x594  | 438x215.5x594                                |
| ENVIRONMENT                    | Operation Environment  |                       | 0-40℃                                                                                                      |                                              |                |                                              |
|                                | Relative Humidity      |                       | 0-95% (Non-Condensing)                                                                                     |                                              |                |                                              |
|                                | Noise Level            |                       | <55dB @ Front 1 meter                                                                                      |                                              |                |                                              |
| INTERFACE                      | RS232/USB              |                       | Software supports Windows Family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGIIRIX, FreeBSD, HP-UX, MAC |                                              |                |                                              |
|                                | Intelligent Slot       |                       | SNMP/AS400/Relay Card                                                                                      |                                              |                |                                              |
|                                | EPO                    |                       | Emergency Power Off                                                                                        |                                              |                |                                              |