

# RACK 110V 6~10KVA

Online Rack Mount UPS 1:1phase PF: 0.9  
110V In/ 110V Out



## Features

- DSP (Digital signal processors) control
- Active input power factor correction, input power factor > 0.99
- Three level inverter technology, lower harmonic, higher efficiency
- Wide input voltage range 55~145V and frequency range 40~70Hz
- Generator compatible
- Cold start function
- Remote on off (ROO) function (optional)
- Economic operation mode (ECO)
- 50Hz/60Hz Frequency auto sensing
- Frequency converter mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output
- Laser printer and ultrasound system load acceptable (customized)
- Communications: RS232 (standard), USB / MODBUS / RS485 / SNMP / AS400 card (optional)
- Reliable design, made with strong glass fiber base (FR4) double side PCB, well designed ventilation and conformal coating

## Rear Panel



R6KS



R10KS

1. Input circuit breaker
2. External battery connector
3. Input and output terminal block
4. EPO /ROO (Remote On Off) port
5. USB port
6. RS232 port
7. Intelligent slot for SNMP/MODBUS/dry contact card etc.
8. LAN port
9. MODBUS port

## Technical Specifications : Accept Customization Requests



Model	LV R6KS	LV R10KS
Capacity	6KVA/5.4KW	10KVA/9KW
Phase	Single phase input single phase output	
<b>AC INPUT</b>		
Wiring	1 phase 3 wires ( L/N+PE)	
Rated Voltage	110/115/120/127VAC	
Voltage Range	Line-Neutral: 55~145VAC	
Frequency Range	40Hz~70Hz	
Input Power Factor	≥0.99	
<b>AC OUTPUT</b>		
Wiring	1 phase (L/N+PE)	
Output Voltage	110/115/120/127VAC	
Voltage Regulation	±2%	
Output Frequency	50/60±4Hz(Sync mode) ; 50/60Hz±0.1%(Free run)	
Waveform	Pure sine wave	
Distortion(THDV%)	<2%(Linear load) , <8% (Non-Linear load)	
Overload Capability	10min@105%~125% ; 60s@125%~150% ; 0.5S@>150%	
<b>EFFICIENCY</b>		
Line Mode	91%	92%
Battery Mode	90%	92%
<b>BATTERY &amp; CHARGER</b>		
Rated Battery Voltage	192VDC (external)	
Battery Capacity & Backup Time	Depend on external battery	
Charging Current	Long backup time model :4A	
<b>HMI</b>		
LCD Display	Input mains voltage, frequency, load level, operation mode, health status	
Standards Communication Interface	(1) RS232 port	
Optional Extension Card	(2) EPO / ROO port (3) Intelligent slot (4) USB port (5) NetWork card: Support remote monitor the UPS via smart phone APP, web page, PC monitor software, support server/NAS shutdown (6) CMC MODBUS card (7) AS400 relay card	
<b>ENVIRONMENT</b>		
Temperature Range	-10~50°C	
Relative Humidity	0-98% (Non-condensing)	
Acoustics Noise	<55dB @ 1 meters	
<b>PHYSICAL</b>		
Dimension WxDxH(mm)	439.4x500x132(3U)	439.4x530x176(4U)
N.W (kg)	18.5	26.1

Product specifications are subject to change without prior notice.

# RACK 220V 6~10KVA

Online Rack Mount UPS 1:1phase PF: 0.9



## Features

- DSP (Digital signal processors) control
- Active input power factor correction, input power factor>0.99
- Three level inverter technology, lower harmonic, higher efficiency
- Wide input voltage range 90V~300V and frequency range 40~70Hz
- Generator compatible
- Cold start function
- Remote on off (ROO) function (optional)
- Economic operation mode (ECO)
- 50Hz / 60Hz Frequency auto sensing
- Frequency converter mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output
- Laser printer and ultrasound system load acceptable (customized)
- Communications: RS232(standard), USB / MODBUS / RS485 / SNMP / AS400 card (optional)
- Reliable design, made with strong glass fiber base (FR4) double side PCB, well designed ventilation and conformal coating

## Rear Panel



R10KS

1. Input circuit breaker
2. External battery connector
3. Input and output terminal block
4. EPO /ROO (Remote On Off) port
5. USB port
6. RS232 port
7. Intelligent slot for SNMP/MODBUS/dry contact card etc.

## Technical Specifications : Accept Customization Requests



Model	HV R6KS	HV R10KS
Capacity	6KVA/5.4KW	10KVA/9KW
<b>AC INPUT</b>		
Wiring	L/N+PE	
Rated Voltage	208/220/230/240VAC	
Voltage Range	90~300VAC	
Frequency Range	40Hz~70Hz	
Input Power Factor	≥0.99	
<b>AC OUTPUT</b>		
Wiring	L/N+PE	
Output Voltage	208/220/230/240VAC	
Voltage Regulation	±1%	
Output Frequency	50/60±4Hz(Sync mode) ; 50/60Hz±0.1%(Free run)	
Waveform	Pure sine wave	
Distortion(THDV%)	<2%(Linear load); <7%(Non-Linear load)	
Overload Capability	10Min@105%~125% rated load; 60Sec.@125%~150% rated load; 0.5Sec.@>150% rated load	
<b>EFFICIENCY</b>		
Line Mode	>93%	
Battery Mode	>91%	
<b>BATTERY &amp; CHARGER</b>		
Rated Battery Voltage	192/240VDC External battery	
Battery Capacity	External battery depends	
Backup Time	External battery depends	
Charging Current	Long backup time model :4A	
<b>HMI</b>		
LCD Display	Input mains voltage, frequency, load level, operation mode, health status	
Standards Communication Interface	(1) RS232 port	
Optional Extension Card	(2) EPO / ROO port (3) Intelligent slot (4) USB port (5) NetWork card: Support SNMP/TCP/IP for remote monitoring the UPS via smart phone APP, web page, PC monitor software , support server/NAS shutdown (6) CMC MODBUS card (7) AS400 Relay card	
<b>ENVIRONMENT</b>		
Temperature Range	-10~50°C	
Relative Humidity	0-98% (Non-condensing)	
Acoustics Noise	<55dB @ 1 meters	
<b>PHYSICAL</b>		
Dimension WxDxH(mm)	439.8x500x88(2U)	
N.W(kg)	14.6	15

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# Lithium 110V 6~10KVA

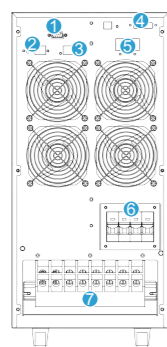
Lithium UPS 1:1phase PF: 0.9  
110V In / 110V Out



## Features

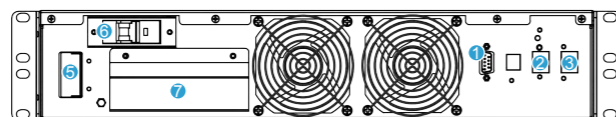
- DSP (Digital signal processors) control
- Active input power factor correction, input power factor > 0.99
- Three level inverter technology, lower harmonic, higher efficiency
- Wide input voltage range 60~145V and frequency range 40~70Hz
- Generator compatible
- Long battery lifecycle, more than 2000
- Remote on off (ROO) function (optional)
- Cold start & Economic operation mode (ECO)
- 50Hz / 60Hz Frequency auto sensing
- Frequency converter mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output
- Li-ion battery provide up to 3x backup time, comparing with regular lead-acid UPS product
- Dry contact interface for BMS dominant control
- Incorporated MODBUS (RS485) interface with BMS
- Li-ion Battery Charger : Constant current , constant voltage, floating, turn-off 4 state charger for Li-ion battery, open to customize the logical behavior for customer- specified battery pack

## Rear Panel



10KVA

1. RS232 port
  2. Lan port
  3. MODBUS
  4. BMS dry contact
  5. External battery connector
  6. AC Input circuit breaker
  7. Input and output terminal block
- (Customized rear panel according to order's request)



6KVA

## Technical Specifications : Accept Customization Requests

**ARIGO**<sup>®</sup>  
POWER

Tower Model	Li LV C6KS	Li LV C10KS
Rack Model	Li LV R6KS	Li LV R10KS
Capacity	6KVA/5.4KW	10KVA/9KW
<b>AC INPUT</b>		
Input System	Single phase (L/N+PE)	
Nominal Voltage	100/110/120/127VAC	
Frequency	50/60Hz	
Voltage Range	60-145Vac±3VAC	
Frequency Range	(40~70)±0.5Hz	
Input Power Factor	>0.99	
Bypass Voltage Range	80~140VAC×(1±3%)	
<b>BATTERY INPUT</b>		
Charging Voltage	216V(default for 60cell of LiFePO4 ) / Customized according to battery request	
Battery Capacity	External	
Charger Behavior & Protection	CC. CV. floating. turn-off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface	
Charging Current	Long backup time model: 4A/8A (optional)	
<b>AC OUTPUT</b>		
Output Wiring System	Single phase (L/N+PE)	
Inverter Output Voltage	100/110/120/127VAC ± 2%	
Waveform	Pure sine wave	
Harmonic Distortion	THD<2% (linear load); THD<7% (non-linear load)	
Output Frequency	50/60±4Hz (Sync mode); 50/60Hz±0.1% (Fix freq.mode)	
Overload Capability	105~125%≥ 60s; 126~150%≥30s, The recover point is 70%.	
Transfer Time	Line mode <-> Battery mode: 0ms	
<b>EFFICIENCY</b>		
Line Mode	>92%	>93%
Battery Mode	>90%	
<b>OTHERS</b>		
Standards Communication Interface	(1) RS232 port (2) Network card: Support SNMP,TCP/IP protocol , for remote monitor the UPS via smart phone APP, web page, PC monitor software, support server / NAS shutdown (3) Dry contact interface for BMS control (4) MODBUS for BMS interface	
Alarm Function	AC/DC input under abnormal, overload condition and inverter problems	
Protection Function	AC input or output above or below the range of voltage, overload, over temperature and short circuit protection	
<b>ENVIRONMENT</b>		
Temperature Range	-10~50°C	
Relative Humidity	0-98% (Non-condensing)	
Acoustics Noise	<55dB @ 1 meters	
<b>PHYSICAL</b>		
Tower Dimension WxDxH (mm)	190x546x340	239x555x528
Rack Dimension WxDxH(mm)	439.4x500x88 (2U)	439.4x530x176 (4U)
Tower N.W (kg)	16	26.1
Rack N.W (kg)	15	26.1

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# Lithium 220V 6~10KVA

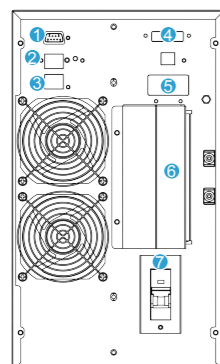
Lithium UPS 1:1phase PF: 0.9



## Features

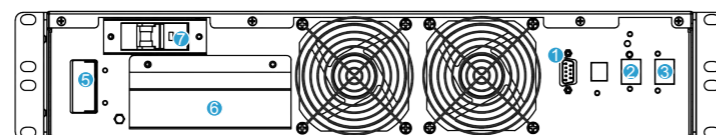
- DSP (Digital signal processors) control
- Active input power factor correction, input power factor > 0.99
- Three level inverter technology, lower harmonic, higher efficiency
- Wide input voltage range 90V~300V and frequency range 40~70Hz
- Generator compatible
- Long battery lifecycle, more than 2000
- Remote on off (ROO) function (optional)
- Cold start & Economic operation mode (ECO)
- 50Hz / 60Hz Frequency auto sensing
- Frequency converter mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output
- Li-ion battery provide up to 3x backup time, comparing with regular Lead-acid UPS product
- Dry contact interface for BMS dominant control
- Incorporated MODBUS (RS485) interface with BMS
- Li-ion Battery Charger : Constant current , constant voltage, floating, turn-off 4 state charger for Li-ion battery, open to customize the logical behavior for customer- specified battery pack

## Rear Panel



6KVA~10KVA

1. RS232 port
  2. LAN port
  3. MODBUS port
  4. BMS dry contact
  5. External battery connector
  6. Input and output terminal block
  7. AC input circuit breaker
- (Customized rear panel according to order's request)



6KVA~10KVA

## Technical Specifications : Accept Customization Requests

**ARIGO**<sup>®</sup>  
P O W E R

Tower Model	Li HV C6KS	Li HV C10KS
Rack Model	Li HV R6KS	Li HV R10KS
Capacity	6KVA/5.4KW	10KVA/9KW
<b>AC INPUT</b>		
Input System	Single phase (L/N+PE)	
Nominal Voltage	208/220/230/240VAC	
Frequency	50/60Hz	
Voltage Range	90~300VAC	
Frequency Range	(40~70)±0.5Hz	
Input Power Factor	>0.99	
<b>BATTERY INPUT</b>		
Charging Voltage	216V(default for 60cell of LiFePO4 ) / Customized according to battery request	
Battery Capacity	External	
Charger Behavior & Protection	CC. CV. floating. turn-off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface	
Charging Current	Long backup time model : 4A/8A (optional)	
<b>AC OUTPUT</b>		
Output Wiring System	Single phase (L/N+PE)	
Inverter Output Voltage	208/220/230/240VAC±1%	
Waveform	Pure sine wave	
Harmonic Distortion	THD<2% (linear load) ; THD<7% (non-linear load)	
Output Frequency	50/60±4Hz (Sync mode); 50/60Hz±0.1% (Fix freq.mode)	
Overload Capability	100%~105% continuous; 60Sec.@105%~130% rated load; 10Sec.@130%~150% rated load; 0.3Sec.@>150% rated load.	
Transfer Time	Line mode <-> Battery mode : 0ms	
<b>EFFICIENCY</b>		
Line Mode	>92%	>93%
Battery Mode	>90%	
<b>OTHERS</b>		
Standards Communication Interface	(1) RS232 port (2) Network card: Support SNMP,TCP/IP protocol , for remote monitor the UPS via smart phone APP, web page, PC monitor software, support server / NAS shutdown (3) Dry contact interface for BMS control (4) MODBUS for BMS interface	
Alarm Function	AC/DC input under abnormal, overload condition and inverter problems	
Protection Function	AC input or output above or below the range of voltage, overload, over temperature and short circuit protection	
<b>ENVIRONMENT</b>		
Temperature Range	-10~50°C	
Relative Humidity	0-98% (Non-condensing)	
Acoustics Noise	<55dB @ 1 meters	
<b>PHYSICAL</b>		
Tower Dimension WxDxH (mm)	190x378x318	190x546x340
Rack Dimension WxDxH(mm)	439.4x500x88 (2U)	439.4x500x88 (2U)
Tower N.W (kg)	14.8	16
Rack N.W (kg)	11.5	13.5

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