

# Single Phase Inverter



## 3.6 kw - Kivo Plus



Built-in 100A Solar Charger



Wide PV Input Voltage Range 40-500V



Feed-in to Grid

DUAL

Dual AC Output

BMS

Support Lithium/Lead-acid Battery



Lithium Battery Activation

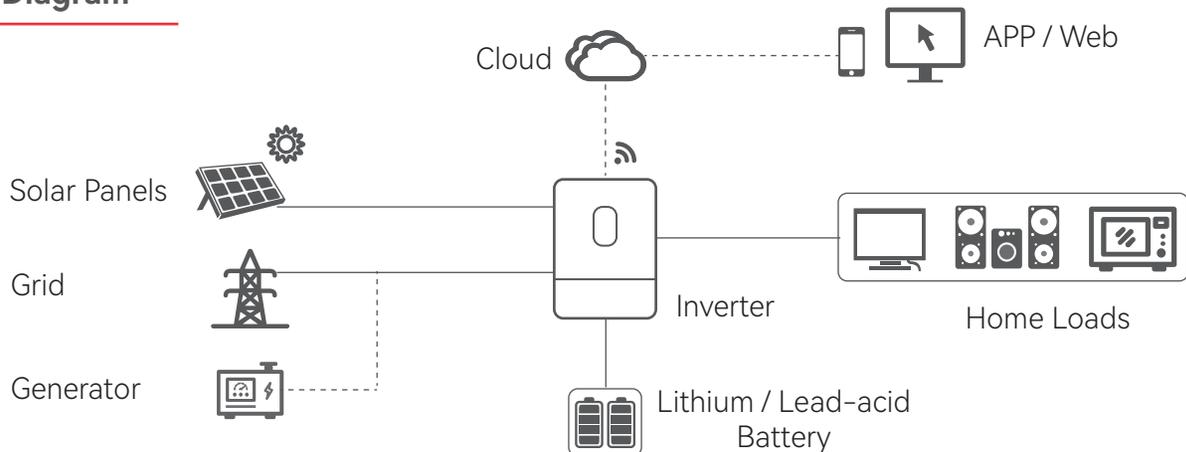


Detachable Dust Cover



WiFi Monitoring(optional)

### System Diagram



# Specifications

Model	3.6 kw – Kivo Plus
<b>AC Input</b>	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
<b>AC Output</b>	
Rated Capacity (kVA/kW)	3.6
Surge Power (kVA)	7.2
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency (Hz)	50 / 60
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-110% load, 10s@110%-200% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
<b>Charger (PV / AC)</b>	
Solar Charger Type	MPPT
Max. PV input Current (A) / Input Power (W)	18 / 5000
MPPT Range@Operating Voltage (VDC)	40 - 450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	100
Max. AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
<b>Battery</b>	
Rated Voltage (VDC)	24
Max. Charging Current (A)	100
Max. Discharging Current (A)	150
Battery Type	Lithium / Lead-acid
<b>Interface</b>	
HMI	LCD
Interface	RS485 / CAN / RS232
Monitoring	WiFi (optional/built-in/external)
<b>General Data</b>	
Ingress Protection	IP21
Operating Temperature (°C)	-10 ~ 60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15 ~ 60
Net Weight (kg)	6.2
Dimensions (H*W*D) (mm)	420*284*94 (without bracket)
Max. Operating Altitude (m)	4000 (Derating above 2000)

# Single Phase Inverter



## 5.0 kw - Kivo Pro

  
Built-in 160A  
Solar Charger

  
Wide PV Input Voltage  
Range 60-500V

  
27A  
MAX PV Input

**DUAL**  
Dual AC Out

  
5 Inch Display

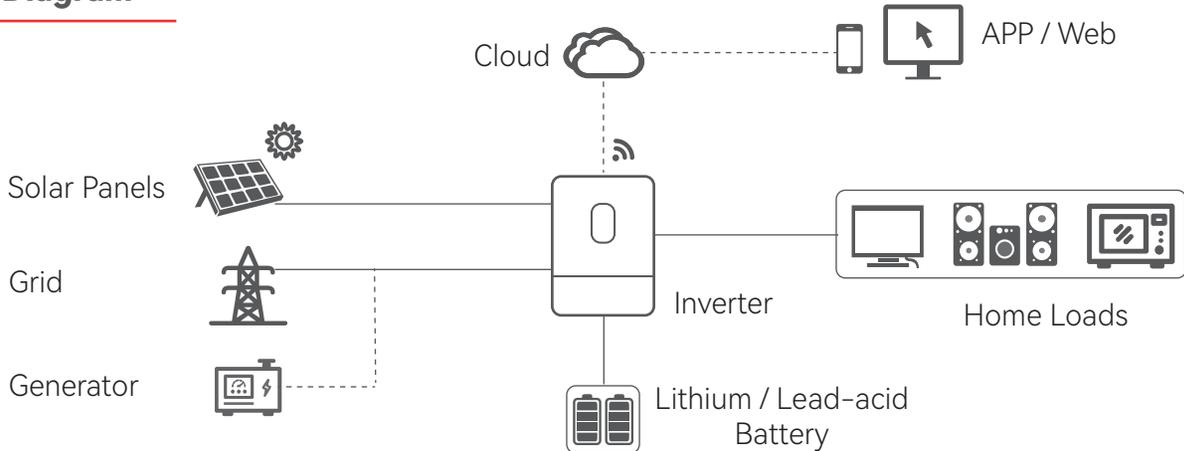
**BMS**  
Support Lithium/  
Lead-acid Battery

  
Lithium Battery  
Activation

  
Feed-in  
to Grid

  
WiFi  
Monitoring(optional)

### System Diagram



# Specifications

Model	5.0 kw – Kivo Pro
<b>AC Input</b>	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
<b>AC Output</b>	
Rated Capacity (kVA/kW)	5
Surge Power (kVA)	10
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency (Hz)	50 / 60
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (PV+Battery mode / PV Mode)	1min@102%-120%load, 10s@120%-200% load
Max. Efficiency (Battery Mode)	93.5%@24VDC
Parallel Quantity	NA
<b>Charger (PV / AC)</b>	
Solar Charger Type	MPPT
Max. PV Input Current (A) / Input Power (W)	27 / 9000
MPPT Range@Operating Voltage (VDC)	60 - 450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
<b>Battery</b>	
Rated Voltage (VDC)	24
Max. Charging Current (A)	160
Max. Discharging Current (A)	190
Battery Type	Lithium / Lead-acid
<b>Interface</b>	
HMI	LCD
Interface	RS232 / RS485 / CAN
Monitoring	WiFi (optional/built-in/external)
<b>General Data</b>	
Ingress Protection	IP21
Operating Temperature (°C)	-10 ~ 60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15 ~ 60
Net Weight (kg)	8.4
Dimensions (H*W*D) (mm)	410*336*110 (without bracket)
Max. Operating Altitude (m)	4000 (Derating above 2000)

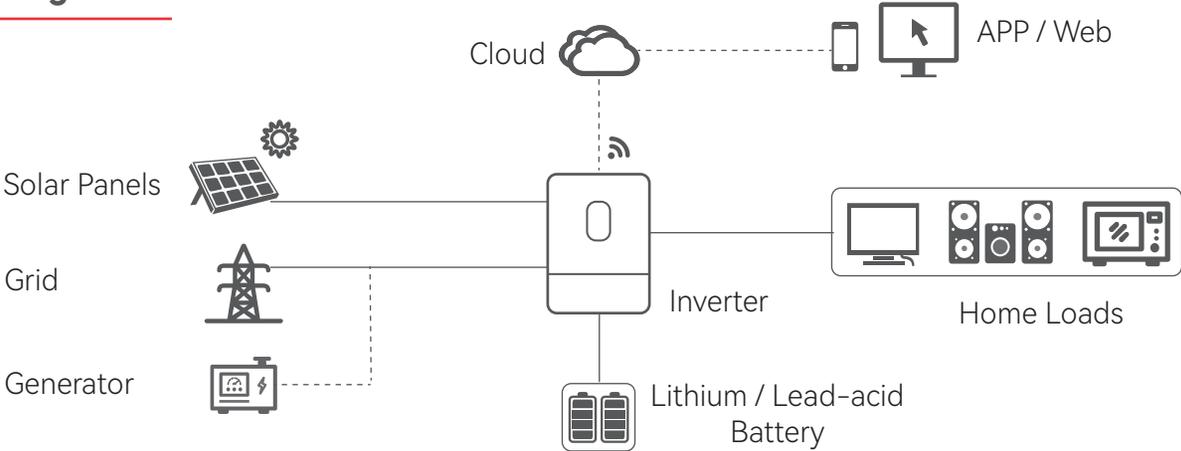
# Single Phase Inverter



## 6.5 kw - Kivo Max

- Built-in 120A Solar Charger
- Wide PV Input Voltage Range 60-500V
- 27A MAX PV Input
- DUAL** Dual AC Out
- BMS** Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- Feed-in to Grid
- WiFi Monitoring(optional)
- 5 Inch Display

### System Diagram



# Specifications

Model	6.5 kw - Kivo Max
<b>AC Input</b>	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
<b>AC Output</b>	
Rated Capacity (kVA/kW)	6.5
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency (Hz)	50 / 60
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (PV+Battery mode / PV Mode)	1min@102%-120% load, 10s@ 120%-200% load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
<b>Charger (PV / AC)</b>	
Solar Charger Type	MPPT
Max. PV Input Current (A) / Input Power (W)	27 / 9000
MPPT Range@Operating Voltage (VDC)	60 - 450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	120
Max. AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
<b>Battery</b>	
Rated Voltage (VDC)	48
Max. Charging Current (A)	120
Max. Discharging Current (A)	140
Battery Type	Lithium / Lead-acid
<b>Interface</b>	
HMI	5 inch LCD
Interface	RS232/RS485/CAN
Monitoring	WiFi (optional/built-in/external)
<b>General Data</b>	
Ingress Protection	IP21
Operating Temperature (°C)	-10 ~ 60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15 ~ 60
Net Weight (kg)	8.4
Dimensions (H*W*D) (mm)	410*336*110 (without bracket)
Max. Operating Altitude (m)	4000 (Derating above 2000)

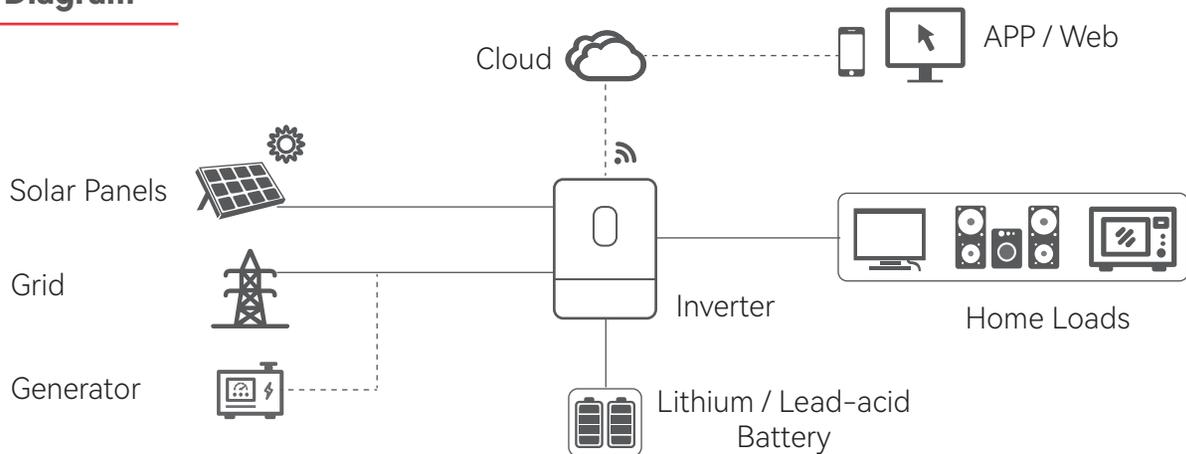
# Single Phase Inverter



## 12.0 kw - Kivo Ultra

- Built-in 160A Solar Charger
- Wide PV Input Voltage Range 60-500V
- Dual MPPTs Input
- 27A+27A MAX PV Input
- DUAL Dual AC Out
- BMS Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- 5 Inch Display
- Feed-in to Grid
- WiFi Monitoring(optional)

### System Diagram



# Specifications

Model	12.0 kw – Kivo Ultra
Rated Input Voltage (VAC)	220 / 230 / 240; L+N+PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50 / 60(Auto Adaptive)
Rated Capacity (kVA/kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220/230/240
Power Factor (PF)	1
Frequency (Hz)	50 / 60
Switch Time (ms)	10(APP/UPS mode), 20(GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (PV+Battery mode / PV Mode)	1min@102%-125% Load, 10s@125%-200% Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Solar Charger Type	Dual MPPTs
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW Using Two MPPTs: 27A/Per MPPT, 15kW/Total
MPPT Range@Operating Voltage (VDC)	60 - 450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
Rated Voltage (VDC)	48
Max. Charging Current (A)	160
Max. Discharging Current (A)	220
Battery	Lithium / Lead-acid
HMI	LCD
Interface	RS232 / RS485 / CAN
Monitoring	WiFi (optional/built-in/external)
Ingress Protection	IP21
Operating Temperature (°C)	-10 ~ 60
Relative Humidity	5%~95% (Non-condensing)
Storage Temperature (°C)	-15 ~ 60
Net Weight (kg)	15
Dimensions (H*W*D) (mm)	495*425*120 (without bracket)
Max. Operating Altitude (m)	4000 (Derating above 2000)