

# 3.6/6 kW Off-grid Hybrid Inverter

### **Features:**

- Off-grid inverter with MPPT range 120 to 430 Vdc;
- Suitable for lead and lithium batteries;
- The inverter allows the BMS communication for 48V Pylontech batteries;
- Configuration for operation priority: PV, grid or power generator;
- The inverter can work without batteries, powered by grid and / or PV and / or power generator;
- Auto restart function when the grid or the PV returns;
- The inverter can be integrated into third party monitoring systems through communication protocol on RS232, RS485, CAN-BUS;
- Remote WiFi monitoring capabilities available for iOS and Android app;
- Multi inverter connection in single-phase or three-phase up to nine units;
- Single-phase configurations from 3.6 to 54 kW with multiple parallel inverters;
- Three-phase configurations from one to three inverters per phase connected in parallel for powers from 10.8 kW to 54 kW;
- 2-year warranty.

## **Dimensions:**

Width: 295 mm Height: 468 mm Depth: 140 mm Weight: 12 kg

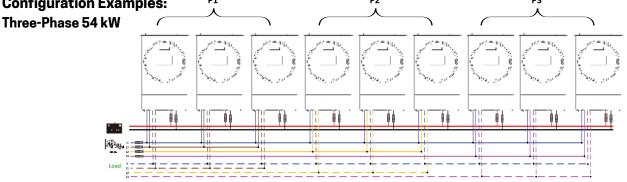


Please note: only the white color is available in stock.

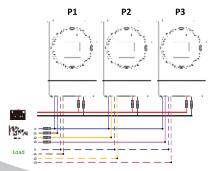


Item code				
Rated Power [VA/W]         3.6/3.6         6/6           AC INPUT         AC INPUT           Nominal Voltage   Frequency [V/Hz]         230 / 50 - 60 (Auto sensing)           Voltage Range (*) [V]         90~280 ± 7           Frequency Range (*) [V]         40~65 ±1           AC OUTPUT         AC Voltage Regulation [V]         230 ± 5%           Overload capacity         5s@≥150% load / 10s@110%~150% load / 100ms @>200% load           Efficiency [Peak]         93%           Transfer Time [ms]         20           Waveform         Pure sine wave           BATTERY         45-54           Charge Voltage [V]         54           Charge Voltage [V]         54           Overcharge Protection [W]         5000           SOLAR CHARGER & AC CHARGER         4           MPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         500         6000           Maximum PV Array Open Circuit Voltage [VDC]         120~430         6000           Maximum PV Array Open Circuit Voltage [VDC]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum Solar Charge Current [A]         100 <t< th=""><th>Model</th><th>zeroCO<sub>2</sub> island 3.6kW</th><th>zeroCO<sub>2</sub> island 6kW Twin</th></t<>	Model	zeroCO <sub>2</sub> island 3.6kW	zeroCO <sub>2</sub> island 6kW Twin	
AC INPUT   Sominal Voltage   Frequency [V/Hz]   230 / 50~60 (Auto sensing)	Item code	90080535	90080540	
Nominal Voltage / Frequency [V/Hz]         230 / 50 - 60 (Auto sensing)           Voltage Range (*) [V]         90 - 280 ± 7           Frequency Range (*) [Hz]         40 - 65 ± 1           AC OUTPUT         AC Voltage Regulation [V]         230 ± 5%           Overload capacity         5s@≥150% load / 10s@110% - 150% load / 100ms @ >200% load           Efficiency [Peak]         95%           Transfer Time [ms]         20           Waveform         Pure sine wave           BATTERY         5           Battery Voltage Range [V]         45 - 54           Charge Voltage [V]         54           Overcharge Protection [W]         5000           SOLAR CHARGER & AC CHARGER         1           MPPT         1           Maximum PV Array Power [W]         500         6000           MPPT Range @ Operating Voltage [VDC]         120 - 430           Maximum PV Array Power [W]         18         27           Maximum PV Array Power [W]         18         27           Maximum PV Array Power [W]         10         120           Maximum PV Array Power [W]         10         120           Maximum PV Array Power [W]         10         120           Maximum PV Array Power [W]         10         120 <th>Rated Power [VA/W]</th> <th>3.6/3.6</th> <th>6/6</th>	Rated Power [VA/W]	3.6/3.6	6/6	
Voltage Range (*) [V]         90~280 ±7           Frequency Range (*) [Hz]         40~65 ±1           AC COUPTUT           AC Voltage Regulation [V]         230 ± 5%           Overload capacity         5s@>150% load / 10s@110%~150% load / 100ms @ ≥200% load           Efficiency [Peak]         93%           Transfer Time [ms]         20           Waveform         Pure sine wave           BATTERY           BATTERY Voltage Range [V]           BATTERY Voltage Range [V]         45-54           Charge Voltage [V]         50           Charge Voltage [V]         50           SOLAR CHARGER & AC CHARGER           MPPT         1           Maximum PV Array Power [W]         500         6000           MPPT Range @ Operating Voltage [VDC]         500         6000           Maximum PV Array Open Circuit Voltage [VDC]         18         27           Maximum PV Array Open Circuit Voltage [VDC]         18         27           Maximum AC Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           ENDITOR (NYLND) [mm]         295x468x140           Net weight [kg]         12           Communication	AC INPUT			
Frequency Range (*) [Hz]         40~65 ±1           AC UPTUT           AC Uottage Regulation [V]         230 ± 5%           Overload capacity         56≥350% load / 103e110% -150% load / 100ms @ ≥200% load           Efficiency [Peak]         393%           Transfer Time [ms]         20           Waveform         Pure sine wave           BATTERY           Battery Voltage [V]         54           Charge Range [V]         54           Charge Range [V]         55           Charge Range [V]         54           Charge Range [V]         54           Charge Range [V]         55           Charge Range [V]         55         50           SULAR CHARGER         50000         50         50         50         60         6000         6000         6000         6000         6000         6000         6000         6000         6000         6000         6000 <th c<="" th=""><th>Nominal Voltage / Frequency [V/Hz]</th><th colspan="2">230 / 50~60 (Auto sensing)</th></th>	<th>Nominal Voltage / Frequency [V/Hz]</th> <th colspan="2">230 / 50~60 (Auto sensing)</th>	Nominal Voltage / Frequency [V/Hz]	230 / 50~60 (Auto sensing)	
AC OUTPUT AC Voltage Regulation [V] Cverload capacity Efficiency [Peak] Space	Voltage Range (*) [V]	90~280 ±7		
AC Voltage Regulation [V]         230 ± 5%           Overload capacity         5s@≥150% load / 10s@110%~150% load / 100ms@≥200% load           Efficiency [Peak]         93%           Transfer Time [ms]         20           Waveform         Pure sine wave           BATTERY         Battery Voltage Range [V]           Battery Voltage [V]         54           Charge Voltage [V]         54           Overcharge Protection [W]         50000           SOLAR CHARGER           Maximum PV Array Power [W]         5000         6000           MPPT Asinge @ Operating Voltage [VDC]         500         6000           MPPT Range @ Operating Voltage [VDC]         500         6000           MPPT Range @ Operating Voltage [VDC]         500         6000           Maximum PV Array Power [W]         120 ~ 430         500           Maximum PV Array Open Circuit Voltage [VDC]         500         6000           Maximum PV Array Open Circuit Voltage [VDC]         18         27           Maximum Solar Charge Current [A]         100         120         20           Maximum AC Charge Current [A]         100         120         20           Maximum AC Charge Current [A]         100         120         20 <th>Frequency Range (*) [Hz]</th> <th colspan="2">40~65 ±1</th>	Frequency Range (*) [Hz]	40~65 ±1		
Overload capacity         5s@≥150% load / 10s@110%−150% load / 100ms @ ≥200% load           Efficiency [Peak]         93%           Transfer Time [ms]         20           Waveform         Pure sine wave           BATTERY         Pure sine wave           BATTERY         \$54           Charge Voltage [V]         54           Overcharge Protection [W]         5000           SOLAR CHARGER           MPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         500         6000           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA         12         120           Dimension, [WxHxD] [mm]         295x 468x140         Net weight [kg]         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         1P21         OPERATING ENVIRONMENT         Protection degree         1P21           Operating Emperature [°C]         5% ~ 95% Relative Humidity (Non-condensing)         Operating Temperature [°C]         -15 ~ +60           Warranty [years]         2         -15 ~ +60	AC OUTPUT			
Efficiency [Peak]         93%           Transfer Time [ms]         20           Waveform         Pure sine wave           BATTERY         Battery Voltage Range [V]         45-54           Charge Voltage [V]         54         Overclarge Protection [W]         5000         S00.00           SOLAR CHARGER & AC CHARGER           MPPT         1         1           Maximum PV Array Power [W]         5000         6000         MRX current from PV [A]         500         MRX current from PV [A]         100         100         120         MAX current from PV [A]         100         120         MRX current from PV [A]         120         MRX current from PV [A]         120         120         MRX current from PV [A]         120         120         MRX current from PV [A]         120         120         120         12	AC Voltage Regulation [V]	230 ± 5%		
Transfer Time [ms]         20           Wave form         Pure sine wave           BATTERY           Battery Voltage Range [V]         45-54           Charge Voltage [V]         54           Overcharge Protection [W]         5000           SOLAR CHARGER           MPPT           MPPT Range @ Operating Voltage [VDC]         10           Maximum PV Array Open Circuit Voltage [VDC]         100         6000           Maximum PV Array Open Circuit Voltage [VDC]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           Meximum AC Charge Current [A]         100         120	Overload capacity	5s@>150% load / $10s@110%~150%$ load / $100ms@>200%$ load		
Waveform         Pure sine wave           BATTERY           Battery Voltage Range [V]         45-54           Charge Voltage [VI]         54           Overcharge Protection [W]         5000           SOLAR CHARGER           MPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         120 ~ 430         6000           Maximum PV Array Open Circuit Voltage [VDC]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA         12         2           Dimension, [WxHxD] [mm]         295x468x140         2           Net weight [kg]         12         12           Communication         USB, RS232, RS485, Bluetooth, WiFi         Protection degree         IP21           OPERATING ENVIRONMENT           Humidity         5% ~ 95% Relative Humidity (Non-condensing)         Operating Temperature [°C]         -10 ~ + 50         Storage Temperature [°C]         -10 ~ + 50         Storage Temperature [°C] <t< th=""><th>Efficiency [Peak]</th><th colspan="2"></th></t<>	Efficiency [Peak]			
BATTERY           Battery Voltage Range [V]         45-54           Charge Voltage [V]         54           Overcharge Protection [W]         5000           SOLAR CHARGER & AC CHARGER         WPPT           MPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         500         6000           Maximum PV Array Open Circuit Voltage [VDC]         500         6000           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA         Dimension, [WxHxD] [mm]         295x468x140         Net weight [kg]           Net weight [kg]         12         Communication           Protection degree         IP21           OPERATING ENVIRONMENT           Humidity         5% ~ 95% Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2		<del></del>		
Battery Voltage Range [V]         45-54           Charge Voltage [V]         54           Overcharge Protection [W]         5000           SOLAR CHARGER           MPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         500         6000           Maximum PV Array Open Circuit Voltage [VDC]         500         6000           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           Meximum AC Charge Current [A]         10         12           CENERAL DATA         12         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         INDICATE STATE STAT		Pure sine wave		
Charge Voltage [V]         54           Overcharge Protection [W]         5000           SOLAR CHARGER & AC CHARGER         WPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         120 ~ 430           Maximum PV Array Open Circuit Voltage [VDC]         500           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA         Use New 12         Communication         USB, RS232, RS468, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         Humidity         Some Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ +50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2				
Overcharge Protection [W]         5000           SOLAR CHARGER & AC CHARGER           MPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         120 ~ 430           Maximum PV Array Open Circuit Voltage [VDC]         500           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         5% ~ 95% Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	Battery Voltage Range [V]	The second secon		
SOLAR CHARGER           MPPT         1           Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         120 ~ 430           Maximum PV Array Open Circuit Voltage [VDC]         500           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA         Use (WAHXD) [mm]         295x468x140           Net weight [kg]         12         Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21         OPERATING ENVIRONMENT         For existing Environment           Humidity         5% ~ 95% Relative Humidity (Non-condensing)         Operating Temperature [°C]         -10 ~ + 50         Storage Temperature [°C]         -15 ~ +60         Warranty [years]         2	Charge Voltage [V]	- · · · · · · · · · · · · · · · · · · ·		
MPPT         5000         6000           MPPT Range @ Operating Voltage [VDC]         120 ~ 430           Maximum PV Array Open Circuit Voltage [VDC]         500           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12         Communication           Vet weight [kg]         USB, RS232, RS485, Bluetooth, WiFi         Protection degree         IP21           OPERATING ENVIRONMENT         FV         Post Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ +50         -15 ~ +60           Storage Temperature [°C]         -15 ~ +60         Warranty [years]         2	Overcharge Protection [W]	5000		
Maximum PV Array Power [W]         5000         6000           MPPT Range @ Operating Voltage [VDC]         120~430           Maximum PV Array Open Circuit Voltage [VDC]         500           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         5% ~ 95% Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10~+50           Storage Temperature [°C]         -15~+60           Warranty [years]         2	SOLAR CHARGER & AC CHARGER			
MPPT Range @ Operating Voltage [VDC]         120~430           Maximum PV Array Open Circuit Voltage [VDC]         500           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         5% ~ 95% Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	MPPT	-		
Maximum PV Array Open Circuit Voltage [VDC]         500           Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT           Humidity         5% ~ 95% Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	Maximum PV Array Power [W]	5000	6000	
Max current from PV [A]         18         27           Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT           Humidity         5% ~ 95% Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	MPPT Range @ Operating Voltage [VDC]	120~430		
Maximum Solar Charge Current [A]         100         120           Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT           Humidity         5% ~ 95% Relative Humidity (Non-condensing)           Operating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	Maximum PV Array Open Circuit Voltage [VDC]			
Maximum AC Charge Current [A]         100         120           GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         5% ~ 95% Relative Humidity (Non-condensing)           Userating Temperature [°C]         -10 ~ +50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	Max current from PV [A]	18	27	
GENERAL DATA           Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         5% ~ 95% Relative Humidity (Non-condensing)           Userating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	Maximum Solar Charge Current [A]	100	120	
Dimension, [WxHxD] [mm]         295x468x140           Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         5% ~ 95% Relative Humidity (Non-condensing)           User Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	Maximum AC Charge Current [A]	100	120	
Net weight [kg]         12           Communication         USB, RS232, RS485, Bluetooth, WiFi           Protection degree         IP21           OPERATING ENVIRONMENT         5% ~ 95% Relative Humidity (Non-condensing)           Uperating Temperature [°C]         -10 ~ + 50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	GENERAL DATA			
Communication     USB, RS232, RS485, Bluetooth, WiFi       Protection degree     IP21       OPERATING ENVIRONMENT     5% ~ 95% Relative Humidity (Non-condensing)       User of the protection	Dimension, [WxHxD] [mm]	295x468x140		
Protection degree     IP21       OPERATING ENVIRONMENT       Humidity     5% ~ 95% Relative Humidity (Non-condensing)       Operating Temperature [°C]     -10 ~ + 50       Storage Temperature [°C]     -15 ~ +60       Warranty [years]     2	Net weight [kg]	12		
OPERATING ENVIRONMENT       Humidity     5% ~ 95% Relative Humidity (Non-condensing)       Operating Temperature [°C]     -10 ~ +50       Storage Temperature [°C]     -15 ~ +60       Warranty [years]     2	Communication	USB, RS232, RS485, Bluetooth, WiFi		
Humidity5% ~ 95% Relative Humidity (Non-condensing)Operating Temperature [°C]-10 ~ +50Storage Temperature [°C]-15 ~ +60Warranty [years]2	Protection degree	IP21		
Operating Temperature [°C] -10 ~ +50 Storage Temperature [°C] -15 ~ +60 Warranty [years] 2	OPERATING ENVIRONMENT			
Operating Temperature [°C]         -10 ~ +50           Storage Temperature [°C]         -15 ~ +60           Warranty [years]         2	Humidity	5% ~ 95% Relative Humidity (Non-condensing)		
Storage Temperature [°C] -15 ~ +60 Warranty [years] 2	Operating Temperature [°C]	-10~+50		
Warranty [years] 2	Storage Temperature [°C]	-15~+60		
(*) The inverter supplies electrical power again once the range is	Warranty [years]		2	
		(*) The inverter supplies electrical power again once the range is a		

**Configuration Examples:** Р1 P2 Р3



# Three-Phase 18 kW



# Single-Phase 36 kW

