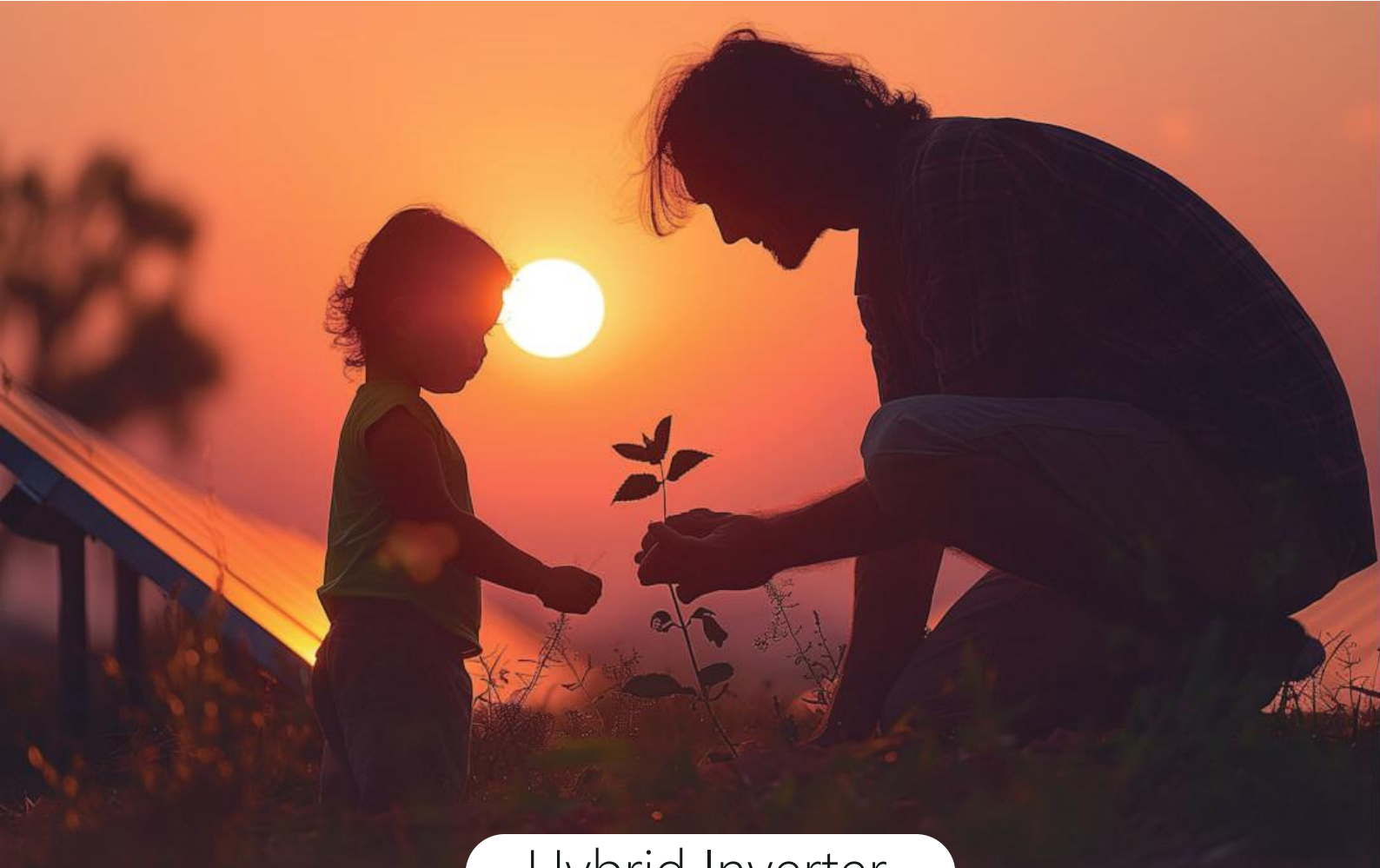




Hybrid Inverter

3.6/4/4.6/5/6K

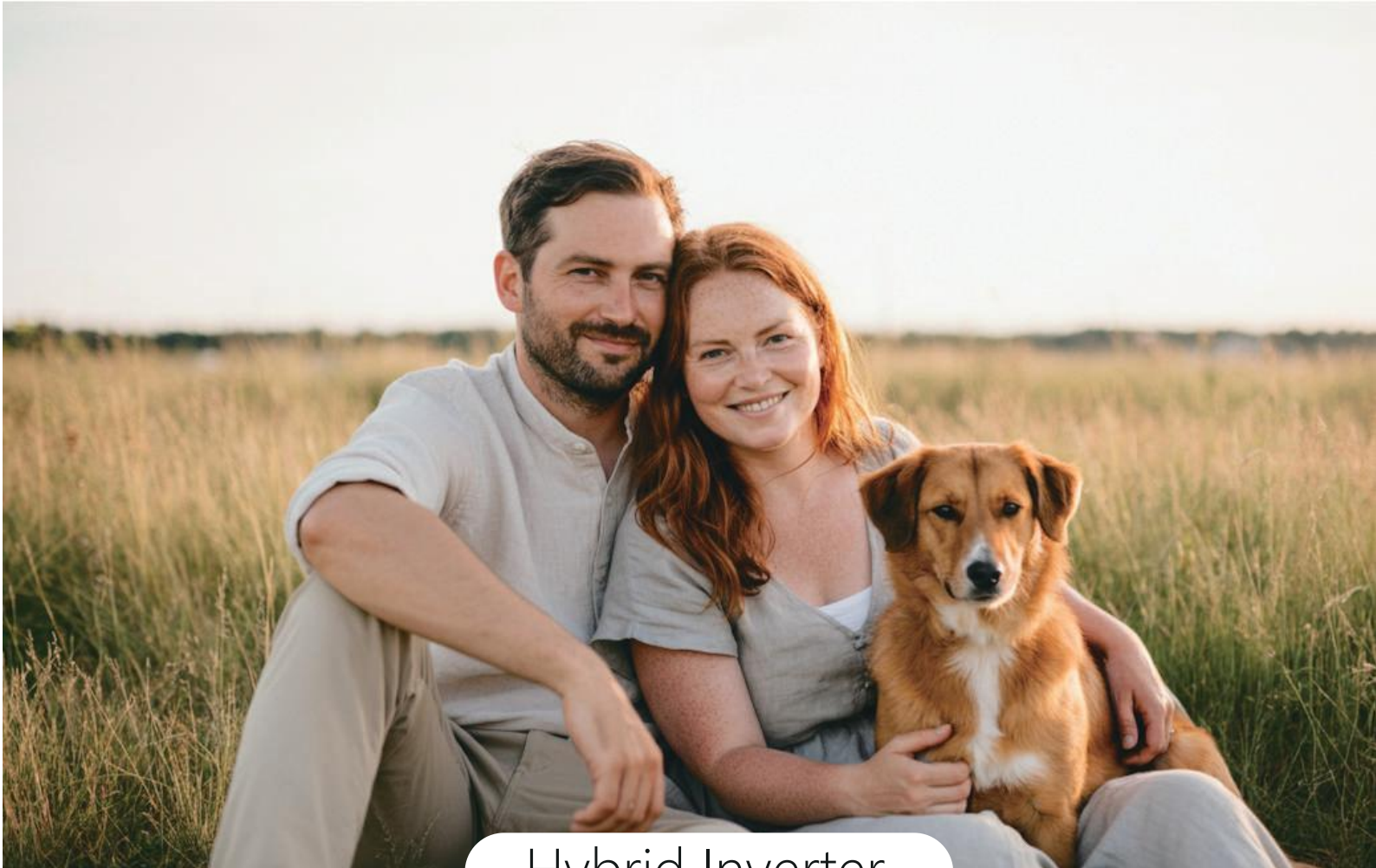
G1P-EU

Features:

- Support diesel generator connection
- Colorful touch LCD
- Max. charging/discharging current of 120A
- Support Max. 16pcs parallel
- IP65 protection degree
- Support remote control/change settings without internet



MODEL	HY3.6K-1P-EU	HY4K-1P-EU	HY4.6K-1P-EU	HY5K-1P-EU	6K-1PLVG1-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)			40-60		
Max. Charge/Discharge Current (A)	90	100	110	120	120
Max. Charge/Discharge Power(kW)	3.96	4.4	5.06	5.5	5.5
Charge Curve	3 Stages/Equalization				
Charge Strategy for Li-Ion Battery	Self-adaption to BMS				
PV String Input Data					
Max.DC Input Power(W)	7200	8000	9200	10000	10800
PV Input Voltage(V)	100~500				
MPPT Voltage Range(V)	125~425				
Full Load DC Voltage Range(V)	240~425				
Start-up Voltage(V)	100				
Max.PV Input Current/ISC PV(A)	18+18 / 28+28				
No.of MPPT Trackers/Number input strings	2/1+1				
AC Output Data					
Rated AC Output and UPS Power(W)	3600	4000	4600	5000	6000
Max.AC Output Apparent Power(VA)	3960	4400	5060	5500	6600
Peak Power(off grid)	1.5 times the rated power, 10S				
AC Output Rated Current(A)	15.7	17.4	20.0	21.7	26.1
Max.AC Current (A)	18.0	19.1	22.0	25.0	30.0
Max.Continuous AC Passthrough(A)	35				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 220/230 / 240Vac				
Grid Type	Single Phase				
Current Harmonic Distortion	THD<3% (Linear load<1.5%)				
Efficiency					
Max.Efficiency/Euro Efficiency/MPPT Efficiency	97.6%/97%/99.9%				
Equipment Protection					
Integrated	PV Input Lightning Protection; Anti-islanding Protection; PV String Input Reverse Polarity Protection; Insulation Resistor Detection; Residual Current Monitoring Unit; Output Over CurrentProtection; Output Shorted Protection; Output Over Voltage Protection;DC circuit breaker.				
Surge protection	DC Type II/AC Type II				
General Data					
Grid Regulation	IEC61727,IEC62116,IEC61683				
Safety/EMC Standard	IEC62109-1,IEC62109-2/IEC61000-6-1,IEC61000-6-3				
Operating Temperatur Range(°C)/Protection Degree/Cooling/Noise(dB)	-25~60°C,>45°C Derating/IP65/Natural cooling/<30 dB				
Communication with BMS	RS485; CAN				
Weight(kg)	20.5				
Size(mm)	330W×580H×232D				
Installation Style	Wall-mounted				
Warranty	5 years				



Hybrid Inverter

7/8/9/10/12K

G1P-EU

Features:

- Support diesel generator connection
- Colorful touch LCD
- Max. charging/discharging current of 210A
- Support Max. 16pcs parallel
- IP65 protection degree
- Support remote control/change settings without internet



MODEL	HY7K-1P-EU	HY8K-1P-EU	HY9K-1P-EU	HY10K-1P-EU	HY12K-1P-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	48V (40-60)				
Max. Charging Current (A)	160	190	190	190	220
Max. Discharging Current (A)	7000	8800	8800	8800	8800
Charging Curve	3 Stages/Equalization				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
PV String Input Data					
Max.DC Input Power(W)	8800	10400	11200	11200	12500
PV Input Voltage(V)	370(100~500)				
MPPT Voltage Range(V)	125-425				
Full Load DC Voltage Range(V)	240~425				
Start-up Voltage(V)	100				
Max.PV Input Current/ISC PV(A)	18+18 / 28+28				
No.of MPPT Trackers/Number input strings	2/2+2				
AC Output Data					
Rated AC Output and UPS Power(W)	7000/7000	8000/8000	9000/9000	10000/10000	12000/12000
Peak Power(off grid)	2times the rated power, 10S				
AC Output Rated Current(A)	30.5	35.0	49.0	43.5	57.2
Max.AC Current (A)	45.8	52.5	58.5	65.3	78
Power Factor Adjustment Range	1.0 (-0.8~+0.8)				
Output Frequency and Voltage	50/60Hz;230Vac				
Grid Type	Single Phase				
Current Harmonic Distortion	THD<3%(Linear load<1.5%)				
Efficiency					
Max.Efficiency/Euro Efficiency/MPPT Efficiency	97.6%/97.0%/99.9%				
Equipment Protection					
Integrated	PV Input Lightning Protection; Anti-islanding Protection; PV String Input Reverse Polarity Protection ; Insulation Resistor Detection; Residual Current Monitoring Unit; Output Over Current Protection; Output Shorted Protection; Output Over Voltage Protection;DC circuit breaker.				
Surge protection	DC Type II / AC Type II				
General Data					
Grid Regulation	VOE0126,AS4777,NRS2017,G98,IEC61683,IEC62116,IEC61727				
Safety/EMC Standard	IEC62109-1,IEC62109-2/EN61000-6-1,EN61000-6-3,FCC15classB				
Operating Temperatur Range(°C)/Protection Degree/Cooling/Noise(dB)	.-25~60°C,>45°C Derating/IP65/Smart cooling/<30 dB				
Communication with BMS	RS485;CAN				
Weight(kg)	30.5				
Size(mm)	410W×632H×238D				
Installation Style	Wall-mounted				
Warranty	5 years				



Hybrid Inverter

HY6/8/10/12/15K

3PL-EU

Features:

- . 100% unbalanced output, max. output up to 50% rated for each phase
- . AC couple to retrofit existing solar system
- . on-grid and off-grid operation;
Support multiple batteries parallel
- . Max. charging/discharging current of 280A
- . 48V low voltage battery, transformer isolation design
- . 6 time periods for battery charging/discharging
- . Support storing energy from diesel generator



MODEL	HY6K-3PL-EU	HY8K-3PL-EU	HY10K-3PL-EU	HY12K-3PL-EU	HY15K-3PL-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. charge/discharge current(A)	150	200	220	250	280
Charging Strategy for Lead-Acid battery	3 stages curve				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV Access Power (W)	12000	16000	20000	24000	30000
Max. PV Input Power (W)	9600	12800	16000	19200	24000
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	160				
Rated PV Input Voltage (V)	360				
MPPT Voltage Range (V)	200-700				
Max. Operating PV Input Current (A)	17A + 17A		30A + 30A		
Max. Input Short-Circuit Current (A)	20A + 20A		36A + 36A		
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1		2/2+2		
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	6000	8000	10000	12000	15000
Max. AC Input/Output Apparent Power (VA)	6600	8800	11000	13200	16500
Rated AC Input/Output Current (A)	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4	22.8/21.8
Max. AC Input/Output Current (A)	10/9.6	13.4/12.8	16.7/15.9	20/19.1	25/24
Max. Continuous AC Passthrough (grid to load) (A)	30		50		
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Grid Connection Form	3L+N+PE				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	RS485/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
General Data					
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	≤55				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	422×658×254 (Excluding Connectors and Brackets)				
Weight (kg)	45				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				



Hybrid Inverter

HY3K12V/3K48V

G1P-EU

Features:

- Parallel operation with up to 9 Units
- Programmable supply priority for PV , Battery or Grid
- Programmable multiple operation Modes
- Built-in MPPT solar controller 100/120A
- Direct plug Wifi dongle supported
- Protection level: IP21
- LCD color touch screen



MODEL	HY3K12V-1PL-EU	HY3K12V-1PH-EU	HY3K48V-1PL-EU	HY3K48V-1PH-EU
Max PV Input Power	3500w	3500w	3500w	3500w
Rated Output Power	3000w	3000w	3000w	3000w
Max Charging Power	3000w	3000w	3000w	3000w
Phase	1-Phase in/1-Phase out			
PV INPUT (DC)				
Nominal DC Voltage /Max DC voltage	210VDC/300VDC	360VDC/450VDC	210VDC/300VDC	360VDC/450VDC
Start-up Voltage	55VDC	55VDC	55VDC	55VDC
MPPT Voltage Range	60VDC-280VDC	60VDC-430VDC	60VDC-280VDC	60VDC-430VDC
Number of MPPT /Max Input Current	1/20A	1/20A	1/20A	1/20A
MPPT Efficiency	>99%	>99%	>99%	>99%
GRID-TIE-OPERATION				
GRID-TIE OUTPUT (AC)				
Nominal Output Voltage	120VAC	230VAC	120VAC	230VAC
Output Voltage Range	90-140VAC	170-264VAC/90-264VAC	90-140VAC	170-264VAC/90-264VAC
Nominal Output Current	25A	13A	25A	13A
Power Factor	>0.99	>0.99	>0.99	>0.99
THDI	<3%	<3%	<3%	<3%
EFFICIENCY				
Max Conversion Efficiency (DC/AC)	93%(Battery To AC) / 96%(PV To AC)			93%(Battery To AC)/97%(PV To AC)
DFF-GRID,HYBRID OPERATION				
AC INPUT				
AC Start up Voltage / Auto Restart Voltage	90VAC/100VAC	170VAC/180VAC	90VAC/100VAC	170VAC/180VAC
Acceptable Input Voltage Range	90-140VAC	170-264VAC/90-264VAC	90-140VAC	170-264VAC/90-264VAC
Max AC Input Current	30A	15A	30A	15A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	230VAC	230VAC	230VAC	230VAC
Output Rating Power	3000w	3000w	3000w	3000w
Surge Power	4500w	4500w	4500w	4500w
Transfer Time	<10ms	<10ms	<10ms	<10ms
Output Waveform	Pure sine wave			
THDV	<3%			
Efficiency(DC to AC)	92%			
BATTERY&CHARGER				
Nominal DC Voltage	12VDC	12VDC	48VDC	48VDC
Max PV / AC Charging Current	150A	150A	60A	60A
GENERAL				
PHYSICAL				
Dmmension,D*W*H(mm)	100*262*430	100*262*430	100*262*430	100*262*430
Net Weight(kg)	8		7.5	
INTERFACE				
Upper Comptter Communication Port	RS-485			
WIFI / BMS Communication Port	RS-485			
ENVIRONMENT				
Humidity	0-9%RH(Non-condensing)			
Operating Temperature	-10 to 50			



Hybrid Inverter

HY4/4.5/5.5/6.5K

G1P-EU

Features:

- Parallel operation with up to 9 Units
- Programmable supply priority for PV , Battery or Grid
- Programmable multiple operation modes
- Built-in MPPT solar controller 100/120A
- Direct plug Wifi dongle supported
- Protection level: IP21
- LCD color touch screen



MODEL	HY4K24V-1PL-EU	HY4.5K24V-1PH-EU	HY5.5K48V-1PH-EU	HY6.5K48V-1PH-EU
Max PV Input Power	4500w	5000w	6500w	7000w
Rated Output Power	4000w	4500w	6000w	6500w
Max Charging Power	4000w	4500w	6000w	6500w
Phase	1-Phase in/1-Phase out			
PV INPUT (DC)				
Nominal DC Voltage /Max DC voltage	210VDC/300VDC	360VDC/450VDC	360VDC/450VDC	360VDC/450VDC
Start-up Voltage	55VDC	55VDC	55VDC	55VDC
MPPT Voltage Range	60VDC-280VDC	60VDC-430VDC	60VDC-430VDC	60VDC-430VDC
Number of MPPT /Max Input Current	1/20A	1/20A	1/20A	1/30A
MPPT Efficiency	>99%	>99%	>99%	>99%
GRID-TIE-OPERATION				
GRID-TIE OUTPUT (AC)				
Nominal Output Voltage	120VAC	230VAC	230VAC	230VAC
Output Voltage Range	90-140VAC	170-264VAC/90-264VAC	170-264VAC/90-264VAC	170-264VAC/90-264VAC
Nominal Output Current	33A	20A	24A	28A
Power Factor	>0.99	>0.99	>0.99	>0.99
THDI	<3%	<3%	<3%	<3%
EFFICIENCY				
Max Conversion Efficiency (DC/AC)	93%(Battery To AC)/97%(PV To AC)			
DFF-GRID,HYBRID OPERATION				
AC INPUT				
AC Start up Voltage / Auto Restart Voltage	170VAC/180VAC	170VAC/180VAC	170VAC/180VAC	170VAC/180VAC
Acceptable Input Voltage Range	90-140VAC	170-264VAC/90-264VAC	170-264VAC/90-264VAC	170-264VAC/90-264VAC
Max AC Input Current	40A	25A	30A	33A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	120VAC	230VAC	230VAC	230VAC
Output Rating Power	4000w	4500w	5500w	6500w
Surge Power	6750W	6000w	8250w	9750w
Transfer Time	<10ms	<10ms	<10ms	<10ms
Output Waveform	Pure sine wave			
THDV	<3%			
Efficiency(DC to AC)	92%			
BATTERY&CHARGER				
Nominal DC Voltage	24VDC	24VDC	48VDC	48VDC
Max PV Charging Current	150A	150A	100A	110A
Max AC Charging Current	100A	120A	80A	90A
Max Charging Current	150A	150A	100A	110A
GENERAL				
PHYSICAL				
Dmmension,D*W*H(mm)	100*262*430	100*262*430	100*262*430	100*262*430
Net Weight(kg)	8	8	8.5	9
INTERFACE				
Upper Comptter Communication Port	RS-485			
WIFI / BMS Communication Port	RS-485			
ENVIRONMENT				
Humidity	0-9%RH(Non-condensing)			
Operating Temperature	-10 to 50			



Hybrid Inverter

10K48V

G1P-EU

Features:

- Parallel operation with up to 9 Units
- Programmable supply priority for PV , Battery or Grid
- Programmable multiple operation modes
- Built-in MPPT solar controller 100/120A
- Direct plug Wifi dongle supported
- Protection level: IP21
- LCD color touch screen



HY10K48V-1PH-EU	
Max PV Input Power	12000w
Rated Output Power	10000w
Max Charging Power	10000w
Phase	2-Phase in/1-Phase out
PV INPUT (DC)	
Nominal DC Voltage /Max DC voltage	550VDC/800VDC
Start-up Voltage	80VDC
MPPT Voltage Range	80VDC-800VDC
Number of MPPT /Max Input Current	2/20A
MPPT Efficiency	>99%
GRID-TIE-OPERATION	
GRID-TIE OUTPUT (AC)	
Nominal Output Voltage	230VAC
Output Voltage Range	170-264VAC/90-264VAC
Nominal Output Current	45A
Power Factor	>0.99
THDI	<3%
EFFICIENCY	
Max Conversion Efficiency (DC/AC)	95%(Battery To AC)/98%(PV To AC)
DFF-GRID,HYBRID OPERATION	
AC INPUT	
AC Start up Voltage / Auto Restart Voltage	170VAC/180VAC
Acceptable Input Voltage Range	170-264VAC/90-264VAC
Max AC Input Current	45A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230VAC
Output Rating Power	10000w
Surge Power	15000W
Transfer Time	<10ms
Output Waveform	Pure sine wave
THDV	<3%
Efficiency(DC to AC)	94%
BATTERY&CHARGER	
Nominal DC Voltage	48VDC
Max PV Charging Current	220A
Max AC Charging Current	180A
Max Charging Current	220A
GENERAL	
PHYSICAL	
Dmmension,D*W*H(mm)	120*480*700
Net Weight(kg)	20
INTERFACE	
Upper Comptter Communication Port	RS-485
WIFI / BMS Communication Port	RS-485
ENVIRONMENT	
Humidity	0-9%RH(Non-condensing)
Operating Temperature	-10 to 50



Hybrid Inverter

HY8/10/12K **3PH-EU**

Features:

High-Efficiency

- . Powered by SiC
- . 100% 3-phase unbalanced Output
- . Compatible with multiple battery brands internet

Easy & Convenient

- . 4 Intergrations :
PV Inverter, PCS, EMS, EPS
- . 3 Connections :
Battery, EV Charger, Generator

Safe & Reliable

- . IP66 Protection
- . AI Powered AFCI Protection
- . Less than 10ms Switching Time



MODEL	HY8K-3PH-EU		HY10K-3PH-EU		HY12K-3PH-EU	
PV Input						
Max. Input Power	12000W		15000W		15000W	
Max. Input Voltage	1000V					
Rated Input Voltage	650V					
Start-up Input Voltage	180V					
MPPT Operating Voltage Range	200V~950V					
Max. Input Current per MPPT	14A	14A/ 28A		14A/ 28A		
Max. Short-circuit Current per MPPT	17A	7A/34A		7A/34A		
No. of MPP Trackers	2					
No. of Strings per MPP Tracker	1	1 / 2		1 / 2		
Battery Data						
Battery Type	Li-ion					
Battery Voltage Range	170V ~ 600V					
Max. Charge / Discharge Current	30A/ 30A	30A/ 30A		30A/ 30A		
Rated Power	8000W	10000W		10000W		
Communication Interface	CAN, RS485					
Compatible Battery	Sunwoda, Pylontech, ACSUHO, CESC					
AC Input and Output (On Grid)						
Rated Output Power	8000W	10000W		12000W		
Max. Output Apparent Power	8800VA	11000VA		12000VA		
Max. Input Apparent Power	16000VA	16000VA		16000VA		
Rated Grid Voltage	3L / N / PE, 380V / 400V					
Rated Grid Frequency	50Hz / 60Hz					
Max. Output Current (per phase)	13.3A	16.7A		17.4A		
Max. Input Current (per phase)	24.2A	24.2A		24.2A		
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Total Harmonic Distortion, THDi	<3%					
Backup Output (Off Grid)						
Rated Output Power	8000W	10000W		12000W		
Peak Output Apparent Power, 10s	16000VA	16000VA		16000VA		
Switch Time	<10ms					
Rated Grid Voltage	3L / N / PE, 380V / 400V					
Rated Grid Frequency	50Hz / 60Hz					
Max. Output Current (per phase)	13.3A	16.7A		17.4A		
Total Harmonic Distortion, THDv	<3%					
Efficiency						
Max. Efficiency	98.0%					
Euro Weighted Efficiency	97.3%					
Max. Battery Discharge Efficiency	97.0%					
Standard Compliance						
Grid Regulation	EN 50549-1, VDE-AR-N 4105, NA/EEA-NE7-CH2020,G98,G99,PPDS:2022, NC RfG					
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2					
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3					
General Data			Protection & Feature			
Dimensions (W x H x D)	514 x 496 x 205mm		DC Reverse Polarity Protection		Yes	
Weight	30kg		PV String Current Monitoring		Yes	
Installation	Wall-mounted		Insulation Resistor Monitoring		Yes	
Operation Temperature	-25°C ~ +60°C (> 45°C Derating)		Residual Current Monitoring		Yes	
Operation Humidity	0~95% RH, No Condensing		Ant-islanding Protection		Yes	
Protection Degree	IP66		AC Overcurrent Protection		Yes	
Max. Operating Altitude	4000m		AC Short-circuit Protection		Yes	
Cooling Method	Natural Convection		AC Overvoltage Protection		Yes	
Noise Emission	<40dB		DC Circuit		Yes	
Topology	Transformerless		Surge protection Device, SPD		DC Type II / AC Type III	
Display	LED indicator, APP		Arc fault circuit interrupter,AFCI		Optional	
Signal Input and Output	DRM, 1×DI, 2×DO		Rapid shutdown,RSD		Optional	
Standby Consumption	<15W					