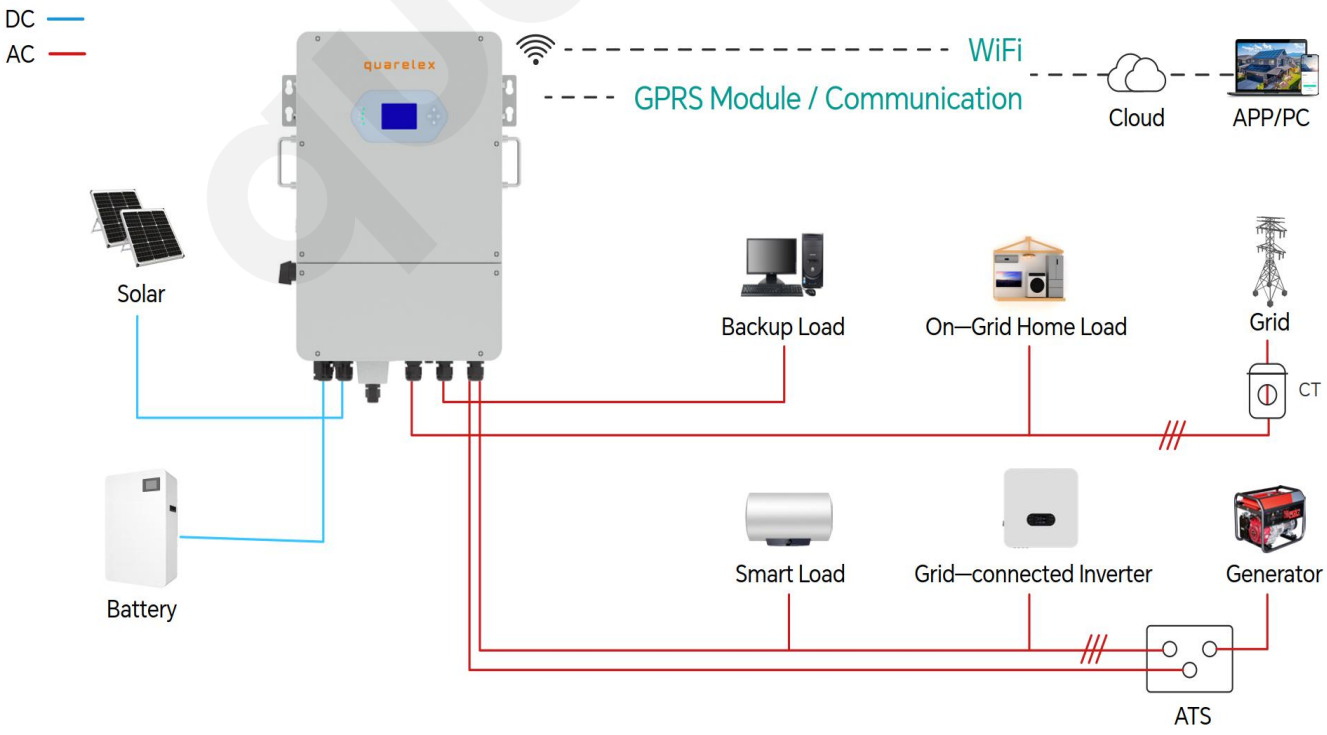
quarelex

Three Phase Low Voltage Hybrid Inverter

QXH02-P3M8K/10K/12K-EU

- 100% unbalanced output, each phase; Max. output up to 50% rated power
- Up to 2 MPPTs, Max. charging/discharging current up to 240A
- Max. 12 pcs parallel
- 6 time periods for battery charging/discharging
- On-grid to off-grid switching time is less than 10 ms; On-grid and off-grid operation
- Support multiple batteries in parallel
- AC couple to retrofit existing solar system
- IP65 protection grade
- Support storing energy from diesel generator

* Outlook of the product may be subject to change without notice during product improving.



Specifications

Model	QXH02-P3M8K-EU	QXH02-P3M10K-EU	QXH02-P3M12K-EU
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40-60V		
Max. Charging Current (A)	160A	200A	240A
Max. Discharging Current (A)	160A	200A	240A
Charging Strategy for Li-ion Battery	Self-adaption to BMS		
Number of Battery Input	1		
PV String Input Data			
Max. PV Input Power (W)	10400W	13000W	15600W
Max. PV Input Voltage (V)	800V		
Start-up Voltage (V)	160V		
MPPT Voltage Range (V)	200-650V		
Rated PV Input Voltage (V)	550V		
Full Load DC Voltage Range	350-650V		
Max. Operating PV Input Current (A)	13A + 13A	26A + 13A	
Max. Input Short-Circuit Current (A)	17A + 17A	34A + 17A	
No. of MPPT	2		
No. of Strings per MPPT	1+1		
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	8800	11000	13200
Peak Power(off-grid)	2 times of rated power, 10s		
Rated AC Input/Output Current (A)	12.16/11.6	15.21/14.5	18.25/17.4
Max. AC Input/Output Current (A)	13.38/12.8	16.73/15.9	20.07/19.1
Max. Three-phase Unbalanced Output Current (A)	18.18//17.4	22.72/21.7	27.27/26.1
Max. Continuous AC Passthrough (grid to load) (A)	45		
Max. Output Short Circuit Current (A)	75		
Peak Power (off-grid) (W)	2 times of rated power, 10s		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50/60Hz; 3L+N+PE, 220/380V, 230/400V (three phase)		
Grid Type	Three Phase		
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	PV Arc Fault Detection, 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		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Over Voltage Category	DC Type II / AC Type III		
Interface			
Battery Communication Interface	RS485/CAN		
Monitor Mode	RS485/USB/CAN/Wifi/GPRS(optional)		
General Data			
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-95%		
Permissible Altitude	2000m		
Noise (dB)	<30		
Ingress Protection(IP) Rating	IP65		
Inverter Topology	Non-Isolated		
Size (WxHxD mm)	340x560x257 mm (product) 680x440x340 mm (packaging)	430x629.9x256 mm (product) 760x530x340 mm (packaging)	
Weight (kg)	25.5 kg (product) / 29 kg (packaging)	36 kg (product) / 40 kg (packaging)	
Type of Cooling	Smart Air Cooling		
Warranty	5 Years (10 Years Optional)		
General Data			
Grid Certification	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CE10 21, EN50549-1, G98, G99C10-11, UNE217002, NBR16149/NBR16150		
Safety/EMC Standards	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		