

NOVA

Single or Three Phase Hybrid Inverter



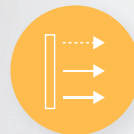
Full back-up power



10-year warranty



Local support



Asymmetric loads

	Single Phase		Three Phase				
Inverter Model	5K1PH	8K1PH	5K3PH	6K3PH	8K3PH	10K3PH	12K3PH
Battery Input Data							
Battery Type	Lead-acid or Lithium-Ion						
Battery Voltage Range (V)	40~60						
Max. Charging/Discharging Current (A)	120	190	120	150	190	210	240
Charging Curve	3 Stages/Equalization						
External Temperature Sensor	Yes						
Charging Strategy for Li-Ion Battery	Self-adaptation to BMS						
PV String Input Data							
Max. DC Input Power (W)	6500	10400	6500	7800	10400	13000	15600
Rated PV Input Voltage (V)	370		550				
PV Input Voltage Range (V)	125-500		160-800				
MPPT Voltage Range (V)	150-425		200-650				
PV Input Current (A)	13						
Max. PV I _{sc} (A)	17	22	17				
No. of MPP Trackers	2						
No. of Strings per MPP Tracker	1/1	2/2	1/1		2/1		
AC Output Data							
Rated AC Output Active Power (W)	5000	8000	5000	6000	8000	10000	12000
Max. AC Output Active Power (W)	5500	8800	5500	6600	8800	11000	13200
Rated AC Current (A)	22.7	33.3	7.6	9.1	12.1	15.2	18.2
Max AC Output Current (A)	25	36.7	8.4	10	13.4	16.7	20
Max. Continuous AC Passthrough (A)	35	50	45				
Peak Power (off grid)	2 time of rated power, 10 s						
Power Factor Adjustment Range	0.8 ahead to 0.8 behind	0.9-1	0.8 ahead to 0.8 behind				
Rated Input/Output Voltage Range (V)	220/230		230/400				
Output Frequency (Hz)	50/60						
Grid Connection Form	L+N+PE		3L+N+PE				
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)						
General Data							
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating						
Cooling	Smart Cooling						
Noise (dB)	≤ 45 dB						
Communication with BMS	RS485; CAN						
Weight (kg)	20.5	32	45				
Size (WxHxD) (mm)	330x580x232	420x670x233	422x702x281				
IP rate	IP65						
Installation	Wall-mounted						
Warranty	10 years						
Protection							
Safety Features	PV input lightning protection, anti-islanding protection, PV string input reverse polarity protection, insulation resistor detection, residual current monitoring, output over-current protection, output short-circuit protection, over-voltage protection (DC type II, AC type III)						
Certifications and Standards							
	Single Phase (5K1PH)		Single Phase (8K1PH)		Three Phase		
Grid Standards	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727		IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Safety and EMC Standards	EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC 15 class B		EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		