

# NOVA

## Single or Three Phase Hybrid Inverter



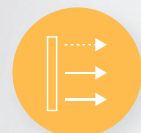
Full back-up power



10-year warranty



Local support



Asymmetric loads

	Single Phase		Three Phase					
Inverter Model	5K1PH	8K1PH	5K3PH	6K3PH	8K3PH	10K3PH	12K3PH	
<b>Battery Input Data</b>								
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							
<b>PV String Input Data</b>								
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 <sub>sc</sub> (A)	17	22			17			
No. of MPP Trackers				2				
No. of Strings per MPP Tracker	1/1	2/2			1/1	2/1		
<b>AC Output Data</b>								
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)							
<b>General Data</b>								
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							
<b>Protection</b>								
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)							
<b>Certifications and Standards</b>								
	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			