

NOVA ECO HYBRID INVERTER

SINGLE PHASE

5kW & 6.5kW



Built in BMS Communication



Reliable Battery Compatibility



Intelligent Energy Management



Wide Input Voltage Range



Fast Backup Switching



IP21 Indoor Design



NOVA ECO HYBRID INVERTER – SINGLE PHASE-LOW VOLTAGE

TECHNICAL SPECIFICATIONS		
Model Information		
Model Number	VN-5KOS	VN-6.5KOS
Capacity	5 KW / 48 V	6.5 KW / 48 V
AC Input		
Rated Input Voltage (VAC)	50/60 Hz; 220/230 Vac, L/N/PE (single phase)	
Voltage Range (VAC)	90–280 ±3 (Normal mode); 170–280 ±3 (UPS mode)	
AC Output		
Rated Capacity (kW)	5	6.5
Surge Power (kVA)	10	12
Voltage (VAC)	208 / 220 / 230 / 240	
Power Factor (PF)	1	
Frequency	50/60 Hz ±0.1%	
Switch Time (ms)	10 (Normal mode) / 10 (UPS mode)	
Wave Form	Pure Sine Wave	
Overload Capacity (Battery Mode)	1 min @ 102%–110% load; 10 s @ >110% load	
Efficiency & Parallel		
Max. Efficiency (Battery Mode)	94% @ 48 VDC	
Parallel Quantity	9 (Optional)	
Charger (PV / AC)		
Solar Charger Type	MPPT	
Max. PV Input Current / Input Power	21 A / 7000 W	27 A / 9000 W
MPPT Range @ Operating Voltage (VDC)	60–450	
Max. PV Open Circuit Voltage (VDC)	500	
Max. PV Charge Current (A)	100	120
Max. AC Charge Current (A)	100	120
Max. Charge Current (PV + AC) (A)	100	120
Battery		
Battery Type	Lithium and Lead-acid	
Rated Voltage (VDC)	48	
Floating Charge Voltage (VDC)	54	
Overcharge Protection (VDC)	61	
Interface		
HMI	5 inch LCD	
Interface	RS232 / RS485	
Monitoring	WiFi (optional / built-in / external)	
General Data		
Ingress Protection	IP21	
Operating Temperature	–10 °C to 60 °C	
Relative Humidity	5% – 95% (Non-condensing)	
Storage Temperature	–15 °C to 60 °C	
Net Weight (kg)	7	8.4
Dimensions (H × W × D) mm	410 × 336 × 110	
Max. Operating Altitude	4000 m (Derating above 1000 m)	