

MODEL	NOVA-10	NOVA-15	NOVA-20	NOVA-30	NOVA-40
Nominal Power	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW*	30 kVA / 30 kW*	40 kVA / 40 kW*
MAIN INPUT					
Grid system	3 Phases + Neutral + Ground				
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz				
Voltage range	304~478 Vac (Phase-Phase), full load; 228V~304 Vac (Phase-Phase), load decreases linearly according to the min phase voltage				
Frequency range	40~70 Hz				
Power factor	>0.99				
Current THDi	<4% (full Linear Load)		<3% (full Linear Load)		
BYPASS INPUT					
Grid system	3 Phases + Neutral + Ground				
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz				
Voltage range	Default: -20% ~ +15% Selectable: -40% ~ +25%				
Frequency range	Selectable, ± 1 Hz, ± 3 Hz, ± 5 Hz, default ± 2 Hz				
Bypass overload	125% long term operation 125%<load<130%, 10 minutes 130%<load<150%, 1 minute				
OUTPUT					
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz				
Power factor	1		1*		
Voltage THDv	<1% (linear load); <5.5% (non-linear load according to IEC/EN62040-3)		<1% (linear load); <6% (non-linear load according to IEC/EN62040-3)		
Voltage precision	$\pm 1.5\%$ (0-100% linear load)				
Transient response	<5% for step load (20-80%; 80-20%)				
Transient recovery	<30ms for step load (20-100%; 100-20%)				
Inverter overload	110%, 60 minutes 125%, 10 minutes 150%, 1 minute >150%, 200 milliseconds				
Frequency regulation	50/60 Hz $\pm 0.1\%$				
Synchronized range	Selectable, ± 0.5 Hz ~ ± 5 Hz, default ± 3 Hz				
Synchronized slew rate	Selectable, 0.5 Hz/s ~ 3 Hz/s, default 2Hz/s				
Crest Factor	3:1				
BATTERIES					
Battery rate voltage	± 240 VDC (selectable)				
Number of batteries ** / ***	Standard: 40 (20+20) batteries 12V Selectable: 32-44, if <40 a power derating must be applied				
Charger voltage precision	1%				
Batteries arrangement	Internal or external				
Battery type	Pb				
SYSTEM					
Efficiency	Normal operation: 95% Eco Mode operation: 98% Battery operation: 94.5%		Normal operation: >95% Eco Mode operation: 98% Battery operation: >95%		Normal operation: >96% Eco Mode operation: 98% Battery operation: >96%
Display	LED + LCD Touch Screen				
Protection degree	IP20				
Interface	Standard equipment: RS232, RS485, dry contacts Optional: parallel kit, USB, SNMP, dust filter, Cold Start				
ENVIRONMENT					
Operating temperature	0 ~ 40 °C				
Storage temperature	-40 ~ 70 °C				
Relative humidity	0 ~ 95% (no condensing)				
Noise (dBA at 1 meter far)	<58		<65		
Altitude	<1000 m; load derated 1% per 100 m from 1000 ~ 2000 m				
MECHANICAL DATA					
Dimensions W*D*H (mm)	380*840*1400			500*940*1400	
Weight (Kg)	100			140	
Colour	RAL 7021				

Note: technical specifications and data could be changed without notification

* For temperatures over 30°C the output power factor is reduced to 0.9

** Our standard battery cabinets are 20+20 batteries

*** In case of internal batteries, the standard is 40 batteries per string