



## PRODUCT SPECIFICATION

### MODEL - NOVA ECO 2000VA/24V HUPS

<b>PRODUCT FG CODE</b>	<b>SUD-NV-202-024-01</b>
<b>Mains Input mode</b>	
Mains AC low cut UPS mode	175VAC ± 10VAC
Mains AC low cut recovery UPS mode	185VAC ± 10VAC
Mains AC high cut UPS mode	265VAC ± 10VAC
Mains AC high cut recovery UPS mode	255VAC ± 10VAC
Mains AC low cut WUPS mode	90VAC ± 10VAC
Mains AC low cut recovery WUPS mode	110VAC ± 10VAC
Mains AC high cut WUPS mode	295VAC ± 10VAC
Mains AC high cut recovery WUPS mode	285VAC ± 10VAC
Input Frequency Range	40Hz to 60Hz
Voltage Output in Mains Mode	Same as input
Frequency Output in Mains Mode	Same as input
<b>Battery</b>	
Battery Type	LA / Tubular / SMF/Li-Ion
DC input voltage	24V
Battery Quantity 12V 100Ah to 220Ah	2
Bulk absorption Voltage	29.6±0.2V
Float charging voltage	27.4V±0.2V
Boost charging voltage for LA Battery	28.0V±0.2V
Boost charging voltage for Tubular and SMF Battery	29.0V±0.2V
Boost charging voltage for Li-Ion Battery	28.8V±0.2V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)
Charging Current 150Ah-220Ah Setting (Input range 135VAC to 295VAC)	20A/25A ± 3A
<b>Backup Mode</b>	
Output voltage	220VAC±10%
Output frequency	50Hz ± 0.2 Hz
Output waveform	Pure Sine Wave ≤ 5% THD
No Load current	<2A
Discharging current @ full load	62A ± 2A
Low Battery Warning	21.6V±0.2V
Low Battery Cut	20.8V±0.2V
Change over time UPS mode	< 10msec
Change over time WUPS mode	< 25msec
<b>Protections</b>	
Overload in backup mode	Yes provided, system will give indication at 101% load
Short Circuit in Backup Mode	System will shutdown after 3 - retries in case of output short circuit
Short Circuit in Mains Mode	Mains MCB will trip
Back feed	System will shutdown in case of back feed and there is no retry
Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down
Reverse Battery	DC fuse will blown
<b>Display and Alarms</b>	
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS OFF, Battery Voltage, Load %, Output Voltage, Output Frequency, Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut
Buzzer	Audible beep for Overload, Short Circuit, Back feed, Low Battery, Over Temperature, Mains Fuse blown / MCB Trip
<b>Safety</b>	
HV Test Input to Earth	Leakage current <5mA when 1.5kV applied for 1 min
HV Test Output to Earth	Leakage current <5mA when 1.5kV applied for 1 min
IR Test Input to Earth	>5MΩ between @ 500VDC
IR Test Output to Earth	>5MΩ between @ 500VDC
Earth Leakage current in Mains mode	< 2.5mA
Earth Leakage current in Backup mode	< 2.5mA
<b>Environment</b>	
Operating Temperature	0°C to 50°C
Storage Temperature	0°C to 50°C
Operating Relative Humidity	90% Non-Condensing