

## Supernova Series

10~500kVA  
3:3 phase PF:0.8/0.9



### Features

- DSP-controlled technology
- Parallel redundancy up to 4 units
- Wide input voltage and frequency windows
- Easy-to-operate LCD display
- High power density up to 500kVA for space saving
- Unity power factor and low input distortion
- Output power factor at 0.8(0.9 optional)
- ECO mode for energy saving
- Common or separate battery
- Programmable battery voltage from  $\pm 192Vdc$  to  $\pm 240Vdc$
- Intelligent charge modes with smart charge current adjustment
- Megatec/Mod Bus protocol supported
- Powerful charger built in
- Versatile communication interfaces provided for different applications
- Superior overload capability
- Programmable control and monitoring software



Control Panel

## Technical Specifications:

Model	33010	33015	33020	33030	33040	33060	33080
Capacity (VA/Watts)	10k/9k	15k/13.5k	20k/18k	30k/27k	40k/36k	60k/54k	80k/72k
<b>INPUT</b>							
Nominal voltage	380/400/415Vac, (3Ph+N+PE)						
Operating voltage range	208~478Vac						
Operating frequency range	40~70Hz						
Power factor	≥0.99						
Harmonic distortion (THDi)	2%(100% nonlinear load)						
Bypass voltage range	Max.voltage: 220V +25%(optional +10%,+15%,+20% ) 230V 20% (optional +10%,+15%) 240V 15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency protection range: ± 10%						
Generator input	Support						
<b>OUTPUT</b>							
Output voltage	380/400/415Vac, (3Ph+N+PE)						
Voltage regulation	± 1%						
Power factor	0.8/0.9(Customized)						
Output frequency	1.Line Mode: ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency(optional) 2.Battery Mode: (50/60 ± 0.2%)Hz						
Crest factor	3:1						
Harmonic distortion (THDv)	≤2% with linear load ≤5% with non linear load						
Efficiency	94.5%			95%			
<b>BATTERY</b>							
Battery voltage	Standard unit: ± 216Vdc; Long run unit Optional Voltage: ± 192V\ ± 204V\ ± 216V\ ± 228V\ ± 240Vdc						
Battery type	12V/38Ah (standard unit)						
Charge Current(A) (charge current can be set according to battery capacity installed)	5.7A (Max./Standard unit) 6.0A (Max./Long run unit)			12A (Max.)		18A (Max.)	
<b>SYSTEM FEATURES</b>							
Transfer time	Utility to Battery : 0ms; Utility to bypass: 0ms						
Overload	Line Mode	Load ≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min, ≥ 150% turn to bypass mode immediately					
	Bat. Mode	Load ≤ 110%: last 10min, ≤ 125%: last 1min, ≤ 150%: last 5S, ≥ 150% shut down UPS immediately					
Short Circuit	Hold Whole System						
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately						
Low battery voltage	Alarm and Switch off						
Self-diagnostics	Upon Power On and Software Control						
EPO (optional)	Shut down UPS immediately						
Battery	Advanced Battery Management						
Nose Suppression	Complies with EN62040-2						
Audible & Visual	Line Failure, Battery Low, Overload, System Fault						
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault						
Reading on the LCD display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature						
Communication interface	RS232,RS485,Parallel,Intelligent slot,Relay card(optional),SNMP card(optional)						
<b>ENVIRONMENTAL</b>							
Operating temperature	0 ~ 40℃						
Storage temperature	-25 ~ 55℃						
Humidity range	0 ~ 95% (non condensing)						
Altitude	< 1500m						
Noise level	<55dB						
<b>PHYSICAL</b>							
Dimension D × W × H (mm)	780 × 600 × 1200						
Net weight (kg)	S:598	S:600	S:602	S:603	170	172	199
	H:129	H:131	H:133	H:134			
<b>STANDARDS</b>							
Safety	IEC/EN62040-1,IEC/EN60950-1						
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8						

Specifications are subject to change without prior notice.

## Technical Specifications:

Model	33100	33120	33160	33200	33300	33400	33500	
Capacity (VA/Watts)	100k/90k	120k/108k	160k/144k	200k/180k	300k/270k	400k/360k	500k/450k	
<b>INPUT</b>								
Nominal voltage	380/400/415Vac, (3Ph+N+PE)							
Operating voltage range	208~478Vac							
Operating frequency range	40~70Hz							
Power factor	≥0.99							
Harmonic distortion (THDi)	3%(100% nonlinear load)							
Bypass voltage range	Max.voltage: 220V +25%(optional +10%,+15%,+20%) 230V 20% (optional +10%,+15%) 240V 15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency protection range: ± 10%							
Generator input	Support							
<b>OUTPUT</b>								
Output voltage	380/400/415Vac, (3Ph+N+PE)							
Voltage regulation	± 1%							
Power factor	0.8/0.9(Customized)							
Output frequency	1.Line Mode: ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency(optional) 2.Battery Mode: (50/60 ± 0.2%)Hz							
Crest factor	3:1							
Harmonic distortion (THDv)	≤2% with linear load ≤5% with non linear load							
Efficiency	95%							
<b>BATTERY</b>								
Battery voltage	Standard unit: ±216Vdc; Long run unit Optional Voltage: ± 192V ± 204V ± 216V ± 228V ± 240Vdc							
Charge Current(A) (charge current can be set according to battery capacity installed)	24A(Max.)	36A(Max.)	50A(Max.)	80A(Max.)	100(Max.)	130A(Max.)		
<b>SYSTEM FEATURES</b>								
Transfer time	Utility to Battery : 0ms; Utility to bypass: 0ms							
Overload	Line Mode	Load ≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min, ≥ 150% turn to bypass mode immediately						
	Bat. Mode	Load ≤ 110%: last 10min, ≤ 125%: last 1min, ≤ 150%: last 5S, ≥ 150% shut down UPS immediately			Load ≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min, ≥ 150% shut down UPS immediately			
Short Circuit	Hold Whole System							
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately							
Low battery voltage	Alarm and Switch off							
Self-diagnostics	Upon Power On and Software Control							
EPO (optional)	Shut down UPS immediately							
Battery	Advanced Battery Management							
Nose Suppression	Complies with EN62040-2							
Audible & Visual	Line Failure, Battery Low, Overload, System Fault							
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault							
Reading on the LCD display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature							
Communication interface	USB,RS232,RS485,Parallel,Intelligent slot,Relay card(optional),SNMP card(optional)							
<b>ENVIRONMENTAL</b>								
Operating temperature	0 ~ 40°C							
Storage temperature	-25 ~ 55°C							
Humidity range	0 ~ 95% (non condensing)							
Altitude	<1500m							
Noise level	70dB				73dB			
<b>PHYSICAL</b>								
Dimension D × W × H (mm)	780 × 600 × 1600			850 × 600 × 1600	850 × 600 × 2000	850 × 1200 × 2000		
Net weight (kg)	288	290	371	380	575	815	860	
<b>STANDARDS</b>								
Safety	IEC/EN62040-1,IEC/EN60950-1							
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8							

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