

SUPERNOVA Series



10~500kVA
3:3 phase

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 1.0
- ECO mode for energy saving
- Common or separate battery
- Programmable battery voltage from $\pm 192\text{Vdc}$ to $\pm 240\text{Vdc}$
- 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	33-10	33-15	33-20	33-30	33-40	33-60	33-80
Capacity (VA/Watts)	10k/9k	15k/13.5k	20k/18k	30k/27k	40k/36k	60k/54 k	80k/72k
INPUT							
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						
OUTPUT							
Output voltage	380/400/415Vac, (3Ph+N+PE)						
Voltage regulation	± 1%						
Power factor	1.0						
Output frequency	Line Mode: ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency(optional) 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%					
BATTERY							
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.)
SYSTEM FEATURES							
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)						
ENVIRONMENTAL							
Operating temperature	0 ~ 40℃						
Storage temperature	-25 ~ 55℃						
Humidity range	0 ~ 95% (non condensing)						
Altitude	< 1500m						
Noise level	<55dB						
PHYSICAL							
Dimension D × W × H (mm)	600 x 860 x 1600						
Net weight (kg)	129	131	133	134	170	172	199
STANDARDS							
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						

SI-YDC

Technical Specifications:

Model	33-100	33-120	33-160	33-200	33-300	33-400	33-500
Capacity (VA/Watts)	100k/90k	120k/108k	160k/144k	200k/180k	300k/270k	400k/360k	500k/450k
INPUT							
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						
OUTPUT							
Output voltage	380/400/415Vac, (3Ph+N+PE)						
Voltage regulation	± 1%						
Power factor	1.0						
Output frequency	Line Mode: ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency(optional) 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%						
BATTERY							
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.)	
SYSTEM FEATURES							
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)						
ENVIRONMENTAL							
Operating temperature	0 ~ 40℃						
Storage temperature	-25 ~ 55℃						
Humidity range	0 ~ 95% (non condensing)						
Altitude	<1500m						
Noise level	70dB				73dB		
PHYSICAL							
Dimension D × W × H (mm)	600 x 860 x 1600			600 x 860 x 1600	600 x 860 x 2000	600 x 860 x 2000	
Net weight (kg)	288	290	371	380	575	815	860
STANDARDS							
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						

S1-YDC