

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
- 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 ± 192Vdc to ± 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									
NPUT	,,		, , , ,			, , , ,											
Nominal volta	age			380/	400/415Vac, (3Ph+l	V+PE)											
Operating voltage range		208~478Vac															
Operating frequency range		40~70Hz															
Power factor		≥0.99															
Harmonic distortion (THDi)		2%(100% nonlinear load)															
Transfer a distortion (TTIB)		Max.voltage: 220V +25%(optional +10%,+15%,+20%) 230V 20% (optional +10%,+15%) 240V 15%(optional +10%)															
Bypass volta	ige range	Min. voltage: -45% (optional -20%,-30%)															
		Frequency protection range: ± 10%															
Generator in	put				Support												
DUTPUT																	
Output voltage		380/400/415Vac, (3Ph+N+PE)															
Voltage regulation		± 1%															
Power factor		0.8/0.9(Customized)															
Output frequ	ency	1.Line Mode: $\pm 1\%/\pm 2\%/\pm 4\%/\pm 5\%/\pm 10\%$ of the rated frequency(optional)															
Julpul Irequi	ency	2.Battery Mode: (50/60 ± 0.2%)Hz															
Crest factor		3:1															
Harmonic dis	stortion (THDv)				≤2% with linear loa	d											
				<u> </u>	5% with non linear I	oad											
Efficiency		94	4.5%			95%											
BATTERY																	
Battery volta	ge	Standard unit: ±216Vdc; Long run unit Optional Voltage: ±192V\±204V\±216V\±228V\±240Vdc															
Battery type		12V/38Ah (standard unit)															
Charge Curr		5.7A (Max./Standard unit)															
-	nt can be set according	6.0A (Max./Long run unit) 12A (Max.) 18A (Max.)						18A (Max.									
to battery capacity installed)																	
SYSTEM FI				LICE L D													
Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms															
Overload	Line Mode Bat. Mode	Load ≤110%: last 60min,≤125%: last 10min,≤150%: last 1min,≥150% turn to bypass mode immediately															
hort Circuit		Load ≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, ≥150% shut down UPS immediately															
Short Circuit Overheat		Hold Whole System Line Mode: Switch to Byress: Backup Mode: Shut down LIPS immediately															
ow battery v	voltago	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately															
Self-diagnos		Alarm and Switch off Upon Power On and Software Control															
PO (optiona		Upon Power On and Software Control Shut down UPS immediately															
		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															
	ion interface	, ,		RS485,Parallel,Intellig													
ENVIRONM																	
Operating temperature					0~40℃												
Storage temperature		-25~55℃															
Storage temp	Humidity range		0~95% (non condensing)														
,	ge			< 1500m													
Humidity ran	ge				< 1500m			<55dB									
Humidity rand	ge																
,	ge																
Humidity randaltitude Noise level	ge J×W×H (mm)																
Humidity randaltitude Noise level	o×W×H (mm)	S:598 H:129	S:600 H:131	S:602 H:133	<55dB	170	172	199									
dumidity randultitude loise level PHYSICAL Dimension D let weight (k	o×W×H (mm)				<55dB 780 × 600 × 1200 S:603	170	172	199									
dumidity randaltitude Noise level PHYSICAL Dimension D	o×W×H (mm)			H:133	<55dB 780 × 600 × 1200 S:603		172	199									

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			
NPUT								1			
Nominal volta	ige			380/	400/415Vac, (3Ph+f	V+PE)					
Operating voltage range		208~478Vac									
Operating fre	quency range	40~70Hz									
Power factor		≥0.99									
Harmonic dis	tortion (THDi)	3%(100% nonlinear load)									
		Max.voltage: 220V +25%(optional +10%,+15%,+20%) 230V 20% (optional +10%,+15%) 240V 15%(optional +10%)									
Bypass voltage range		Min. voltage: -45% (optional -20%,-30%)									
		Frequency protection range: ±10%									
Generator inp	out	Support									
DUTPUT											
Output voltag	е			380/-	400/415Vac, (3Ph+	N+PE)					
/oltage regul	ation	± 1%									
Power factor		0.8/0.9(Customized)									
		1.Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency(optional)									
Output freque	ency	2.Battery Mode: (50/60 ± 0.2%)Hz									
Crest factor		2.Battery Mode. (50/00 ± 0.2%) FIZ 3:1									
3,000,10000		3:1 ≤2% with linear load									
Harmonic distortion (THDv)		≤2% with intear load									
Efficiency		≤5% with non linear load 95%									
BATTERY					3070						
Battery voltag	20		Standard unit: + 216	Vdc: Long run uni	t Optional Voltage: :	+ 192\/\ + 204\/\ + 21	6\/\ + 228\/\ + 240\/	/dc			
Charge Curre			nandara amt. = 210	Vac, Long ran an	Optional Voltage:	- 132 (- 204 (- 21	0 1 1 2 2 2 0 1 1 2 4 0 1				
-	t can be set according	24A(Max	(Max.)	36A(Max.)	50A(Max.)	80A(Max.)	100(Max.)	130A(Max.)			
to battery capacity installed)		2 17 1/1	,								
SYSTEM FE	ATURES			,		1		,			
Γransfer time				Utility to Ba	ttery: 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	Lo	ad≤110%: last 10r	Load≤110%: last 60min,≤125%: last 10min,							
Bat. Wode		≤150%: last 5S,≥150% shut down UPS immediately ≤150%: last 1min,≥150% shut down UPS immediately									
Short Circuit		Hold Whole System									
Overheat			Line Me	ode: Switch to Bypa	ass; Backup Mode: S	Shut down UPS imm	ediately				
.ow battery v	oltage				Alarm and Switch o	ff					
Self-diagnostics		Upon Power On and Software Control									
EPO (optiona	ıl)	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									
Communicati	on interface		USB,RS232	,RS485,Parallel,Inte	elligent slot,Relay ca	rd(optional),SNMP	card(optional)				
ENVIRONM	ENTAL										
Operating temperature		0~40℃									
Storage temp	erature				- 25∼55°C						
Humidity rang	је			0 -	- 95% (non condens	sing)					
Altitude					<1500m						
Noise level			71	0dB			73dB	-			
PHYSICAL											
Dimension D × W × H (mm)			780 × 600 × 1600			850 × 600 × 2000	000 850 × 1200 × 2000				
Net weight (kg)		288	290	371	850 × 600 × 1600 380	575	815	860			
			1	1				1			
TANDARD											
STANDARD Safety				IEC/E	N62040-1,IEC/EN6	0950-1					

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