VGDII-33

Ideal application for IDC (Internet Data Center), ISP, IT Room, Service Center and any other Intelligent equipments













Advanced LCD Touch screen

Main Feature

Excellent Power Adaptability

Power Factor 1.0 High efficiency up to 96% Wide voltage range 228-478 VAC Input THDi < 3%



Parallel up to 8 units (10-40KVA)

Parallel up to 1500KVA (500KVA*3 units in parallel)

Compact size design, saving valuable space



Charging current adjustable from LCD Smart charging control, extends the battery life Charging power up to 20% system power

Simulated Load Test

Preemptive on field setting and factory testing Load simulated without connected to real load Self-aging test by load detection

High Efficiency Load Distribution

Maintenance system efficiency in low-load User-friendly operation Smart sleep function for energy saving (60-500KVA)

Thoughtful User Interface

Up to 10.4" LCD Touch screen Graphic and colorful LCD display In-time visual UPS status





















Specifications

	odel VGDII-10K33	VGDII-15K33	VGDII-20K33	VGDII-30K33	VGDII-40K33		
Capacity							
Capacity (VA)	10KVA	15KVA	20KVA	30KVA	40KVA		
Capacity (Watts)	10KW	15KW	20KW	30KW	40KW		
Main Input					•		
Grid System		3 Phase	s + Neutral + Grou	nd			
Voltage		380/400/415VAC (Line-Line)					
Voltage	Full load : 304~478 VAC (line-line) / Other : 228V~304 VAC (line-line)						
Voltage Range		(load decreases linearly according to the min phase voltage)					
Frequency			50/60Hz				
Frequency Range		4	IOHz to 70Hz				
Power Factor							
Current THDi	<4% (full Li	<4% (full Linear Load) <3% (full Linear Load)					
Output	•	,		,	,		
Inverter Voltage		380/400	/415VAC (Line-Lin	e)			
Inverter Frequency							
		50/60Hz					
Output Power Factor	1*						
Voltage Precision		±1.5% (0-100% Linear load)					
Transient Response			load (20% - 80%				
Transient recovery			p load (20% - 100°				
Output Voltage THDu	<1% (line <5.5% (non-linear IEC/EN6	load) according to	<1% linear load; <6% (non-linear load) according to IEC/EN62040-3				
Inverter Overload	110% to 125%,	100% to 110%, 60min 110% to 125%, 60 min - 10 min 125% to 150%, 10 min - 1 min		100% to 110%, 30min 110% to 125%, 30min - 5 min 125% to 150%, 5 min - 10 seconds			
Frequency Regulation		50/60Hz ± 0.1%					
			Default: ±3Hz				
Synchronized Range	Settable Range: ±0.5Hz to ±5Hz						
	Default: 0.5Hz/s						
Synchronized Slew Rate		Default: 0.5Hz/s Settable Range: 0.5Hz/s to 3Hz/s					
Battery And Charger							
Battery Voltage			±240VDC				
Charger Voltage Precision			1%				
Charger Power	- 	MAX = 1	20% System Powe	r			
Bypass Input		170 0 (2070 0 90001111 0110	<u>'</u>			
Voltage		290/400	/415\/AC /Line Lin	٥)			
Voltage Range		380/400/415VAC (Line-Line) Selectable, default -20% to +15%; Upper limit: +10%, +15%, +20%, +25%; Lower limit: -10%, -15%, -20%, -30%, -40%					
Frequency			50/60Hz				
Frequency Range			ange: ±1Hz, ±3Hz				
Bypass Overload	125% Long	term operation; 125%	6 to 130% for 10m	in; 130% to 150%	for 1min		
Efficiency							
Normal Operation	95.0%	MAX	>95	.0%	>96.0%		
Battery Operation	94.5%			.0%	>96.0%		
Environmental	2070				22.070		
Operation Temperature			0 ∼ 40°C				
			-40 ∼ 40 C -40 ∼ 70°C				
Storage Temperature							
Relative Humidity			% (Non condensing				
Noise (1m from surface)		58dB @ 100% load / 52dB @ 45% load 65dB @ 100% load / 62dB @ 45% load					
Altitude	Normal:	< 1000m; Power dec	lined 1% per 100m	from 1000m to 20	000m		
Physical data							
Dimension (W*D*H,mm)	250*840*715	250*840*715	350*738*1335	350*738*1335	500*840*1400		
Weigh (Kg) (Without battery)	53	50	96	96	164		
System	. 55				107		
	-	I ED +	LCD touch screen				
Display							
Interface		Standard: RS232, RS					
Other function		Standard: Battery Cold Start Optional: Parallel Kit					
Maximum parallel q'ty			8 units				
			J U. 110				

Specifications

Model	VGDII-60K33	VGDII-80K33	VGDII-90K33	VGDII-100K33	VGDII-120K33		
Capacity	0010.11	001011	001011	4001074	4001011		
Capacity (VA)	60KVA	80KVA	90KVA	100KVA	120KVA		
Capacity (Watts)	60KW	80KW	90KW	100KW	120KW		
Main Input	O Phone A No. 1 to Co.						
Grid System	3 Phases + Neutral + Ground						
Voltage	380/400/415VAC (Line-Line)						
Voltage Range	Full load : 304~478 VAC (line-line) / Other : 228V~304 VAC (line-line) (load decreases linearly according to the min phase voltage)						
Frequency	50/60Hz						
Frequency Range	40Hz to 70Hz						
Power Factor							
Current THDi	<3% (full Linear Load)						
Output							
Inverter Voltage	380/400/415VAC (Line-Line)						
Inverter Frequency	50/60Hz						
Output Power Factor							
Voltage Precision	1 ±1%						
Transient Response		∠50/. for	r step load (20% - 80%	200/.)			
Transient recovery			for step load (0% - 10				
Output Voltage THDu	<1% from 0% to 100% linear load <5% full non-linear load according to IEC/EN62040-3						
Inverter Overload	<11	0%, 60min; 110%~12	5%, 10min; 125%~150	0%, 1min; >150%, 200	Oms		
Frequency Regulation			50/60Hz ± 0.01%				
Synchronized Range			Default: ±3Hz				
Synchronized Range		Setta	ble Range: ±0.5Hz to :	±5Hz			
0 1 101 51			Default: 0.5Hz/s				
Synchronized Slew Rate		Settal	ble Range: 0.5Hz/s to	3Hz/s			
Battery And Charger			<u> </u>				
Battery Voltage			±240VDC				
Charger Voltage Precision			1%				
Charger Power		MA	X = 20% *Output Pow	ver			
Bypass Input							
Voltage		380	0/400/415VAC (Line-Li	ne)			
vollage			able, default -20% to +				
Voltage Range			nit: +10%, +15%, +20%				
Voltage Narige			-10%, -15%, -20%, -3				
Fraguency		LOWEI IIIIIL.	50/60Hz	0 70, -40 70			
Frequency		Colocto	ble Range: ±1Hz, ±3H	- IEII-			
Frequency Range	4050/ 1 4				1500/ 5 000		
Bypass Overload	125% Long terr	n operation; 125% to	130% for 10min; 130%	to 150% for Tmin; >1	150% for 300ms		
Efficiency							
Normal Operation	>95.0%	>96.0%	>95.0%	>96.0%	>95.0%		
Battery Operation	>95.0%	>96.0%	>95.0%	>96.0%	>95.0%		
Environmental							
Operation Temperature			0 ~ 40°C				
Storage Temperature			-40 ∼ 70°C				
Relative Humidity		0 ^	~ 95% (Non condensi	na)			
Noise (1m from surface)			100% load / 62dB @ 4				
Altitude	No		r declined 1% per 100		0m		
Physical data	140		170 por 100				
Dimension (W*D*H,mm)	600*980*950	600*980*1150	600*980*1400	600*980*1150	600*980*1400		
Weigh (Kg)	178	255	255	229	288		
	170	200	200	223	200		
System		1	ED + I CD touch cores	un.			
Display	21		ED + LCD touch scree		00		
Interface	Standard: RS232, RS485, USB, Dry contact / Optional: SNMP, AS400						
Other function	Standard: Battery Cold Start Optional: Parallel Kit, Lightning protection components, Dust filter						
		Optional: Parallel Kit,		omponents, Dust filter	•		
Maximum parallel q'ty			4 units				

Specifications

Model	VGDII-150K33	VGDII-200K33	VGDII-250K33	VGDII-300K33	VGDII-400K33	VGDII-500K33				
Capacity			70220000		7 0 2 11 10 0 110 0	102.1.000.100				
Capacity (VA)	150KVA	200KVA	250KVA	300KVA	400KVA	500KVA				
Capacity (Watts)	150KW	200KW	250KW	300KW	400KW	500KW				
Main Input	1001111	2001111	2001111	0001177	1001177	0001111				
Grid System			3 Phases + N	eutral + Ground						
Voltage	380/400/415VAC (Line-Line)									
	Full load : 304~478 VAC (line-line) / Other : 228V~304 VAC (line-line)									
Voltage Range	(load decreases linearly according to the min phase voltage)									
Fragues av	50/60Hz									
Frequency	40Hz to 70Hz									
Frequency Range Power Factor	TOI 12 10 / OI 12									
Current THDi	<3% (full Linear Load)									
	<3% (Tuli Linear Load)									
Output	290/400/445\/AC// inc inc)									
Inverter Voltage	380/400/415VAC (Line-Line)									
Inverter Frequency	50/60Hz									
Output Power Factor	1									
Voltage Precision	±1%									
Transient Response			<5% for step load < 30ms for step lo							
Transient recovery										
Output Voltage THDu		∠F0/ £ !!		100% linear load						
			non-linear load a							
Inverter Overload	<	:110%, 60min; 11	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	min; >150%, 200n	<u>ns</u>				
Frequency Regulation				z ± 0.01%						
Synchronized Range			Default							
	Settable Range: ±0.5Hz to ±5Hz									
Synchronized Slew Rate				: 0.5Hz/s						
-			Settable Range	: 0.5Hz/s to 3Hz/s	3					
Battery And Charger										
Battery Voltage				0VDC						
Charger Voltage Precision				1%						
Charger Power			MAX = 20%	*Output Power		MAX = 20% *Output Power				
Bypass Input			000/400/445	/AO (Lin - Lin -)						
Bypass Input Voltage				/AC (Line-Line)	20/ +450/ +200/	.050/				
Voltage		Selectable, defa	ault -20% to +15%	6: Upper limit: +10)%, +15%, +20%,	+25%;				
Voltage Voltage Range		Selectable, defa	ault -20% to +15% wer limit: -10%, -1	6; Upper limit: +10 5%, -20%, -30%,	0%, +15%, +20%, -40%	+25%;				
Voltage Voltage Range Frequency		Lo	ault -20% to +15% wer limit: -10%, -1 50/	6; Upper limit: +10 5%, -20%, -30%, 60Hz	-40%	+25%;				
Voltage Voltage Range	405%	Lo	ault -20% to +15% wer limit: -10%, -1	6; Upper limit: +10 5%, -20%, -30%, 60Hz 6: ±1Hz, ±3Hz, ±5	-40% Hz	+25%;				
Voltage Voltage Range Frequency	125% Long te	Lorrm operation;	ault -20% to +15% wer limit: -10%, -1 50/	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to	Hz term operation;	+25%;				
Voltage Voltage Range Frequency	125% to 130	Lo rm operation; % for 10min;	ault -20% to +15% wer limit: -10%, -1 50/	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 110% to 12	Hz term operation; 25% for 5min;	+25%;				
Voltage Voltage Range Frequency Frequency Range	125% to 130 130% to 150	Lo erm operation; % for 10min; 9% for 1min;	ault -20% to +15% wer limit: -10%, -1 50/	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 110% to 12 125% to 15	Hz term operation; 25% for 5min; 50% for 1min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload	125% to 130	Lo erm operation; % for 10min; 9% for 1min;	ault -20% to +15% wer limit: -10%, -1 50/	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 110% to 12 125% to 15	Hz term operation; 25% for 5min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency	125% to 130 130% to 150	Lo erm operation; % for 10min; 9% for 1min;	ault -20% to +15% wer limit: -10%, -1 50/ Selectable Range	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 12 125% to 15 >1506	Hz term operation; 25% for 5min; 50% for 1min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation	125% to 130 130% to 150	Lo erm operation; % for 10min; 9% for 1min;	ault -20% to +15% wer limit: -10%, -1 50/ Selectable Range >9	6; Upper limit: +10 5%, -20%, -30%, 60Hz 6: ±1Hz, ±3Hz, ±5 110% Long to 12 125% to 15 >1506	Hz term operation; 25% for 5min; 50% for 1min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation	125% to 130 130% to 150	Lo erm operation; % for 10min; 9% for 1min;	ault -20% to +15% wer limit: -10%, -1 50/ Selectable Range >9	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 12 125% to 15 >1506	Hz term operation; 25% for 5min; 50% for 1min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental	125% to 130 130% to 150	Lo erm operation; % for 10min; 9% for 1min;	ault -20% to +15% wer limit: -10%, -1 50/ Selectable Range >9 >9	6; Upper limit: +10 5%, -20%, -30%, 60Hz 6: ±1Hz, ±3Hz, ±5 110% to 12 125% to 15 >150 6.0%	Hz term operation; 25% for 5min; 50% for 1min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature	125% to 130 130% to 150	Lo erm operation; % for 10min; 9% for 1min;	ault -20% to +15% wer limit: -10%, -1 50/ Selectable Range >9 >9	6; Upper limit: +10 5%, -20%, -30%, 60Hz 6: ±1Hz, ±3Hz, ±5 110% to 12 125% to 15 >150° 6.0% 40°C	Hz term operation; 25% for 5min; 50% for 1min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature	125% to 130 130% to 150	Lo erm operation; % for 10min; 9% for 1min;	>9 0 ~ -40 ~	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 12 110% to 12 125% to 15 >150° 6.0% 40°C 70°C	Hz term operation; 25% for 5min; 50% for 1min;	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity	125% to 130 130% to 150	rm operation; % for 10min; 9% for 1min; or 300ms	>9 0 ~ 95% (No	6; Upper limit: +10 5%, -20%, -30%, 60Hz 6: ±1Hz, ±3Hz, ±5 110% to 12 125% to 15 >150° 6.0% 40°C 70°C on condensing)	Hz term operation; 25% for 5min; 50% for 1min; % for 1s	+25%;				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface)	125% to 130 130% to 150 >150% fo	Lo orm operation; % for 10min; 10% for 1min; or 300ms	>9 0 ~ 95% (No. 504) 0 ~ 95% (No. 508)	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 12 110% to 12 125% to 15 >1506 6.0% 40°C 70°C on condensing) to 762dB @ 45% I	Hz term operation; 5% for 5min; 60% for 1min; % for 1s					
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude	125% to 130 130% to 150 >150% fo	Lo orm operation; % for 10min; 10% for 1min; or 300ms	>9 0 ~ 95% (No. 504) 0 ~ 95% (No. 508)	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 12 110% to 12 125% to 15 >1506 6.0% 40°C 70°C on condensing) to 762dB @ 45% I	Hz term operation; 25% for 5min; 50% for 1min; % for 1s					
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data	125% to 130 130% to 150 >150% fo	rm operation; % for 10min; % for 1min; or 300ms 6 Normal: < 1000m	Selectable Range	6; Upper limit: +10; 5%, -20%, -30%,	-40% Hz term operation; 5% for 5min; 50% for 1min; % for 1s oad m 1000m to 2000r	n				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data Dimension (W*D*H,mm)	125% to 130 130% to 150 >150% fo	Loon	Selectable Range Solution	6; Upper limit: +10; 5%, -20%, -30%,	Hz term operation; 5% for 5min; 50% for 1min; % for 1s oad m 1000m to 2000r	m 1300*1100*2000				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data Dimension (W*D*H,mm) Weigh (Kg)	125% to 130 130% to 150 >150% fo	rm operation; % for 10min; % for 1min; or 300ms 6 Normal: < 1000m	Selectable Range	6; Upper limit: +10; 5%, -20%, -30%,	-40% Hz term operation; 5% for 5min; 50% for 1min; % for 1s oad m 1000m to 2000r	n				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data Dimension (W*D*H,mm) Weigh (Kg) System	125% to 130 130% to 150 >150% fo	Loon	20% to +15% wer limit: -10%, -1 50/ Selectable Range >9 >9 >9 0 ~ -40 ~ 0 ~ 95% (No. 5dB @ 100% load 1; Power declined 650*960*2000 510	6; Upper limit: +10; 5%, -20%, -30%,	Hz term operation; 5% for 5min; 50% for 1min; % for 1s oad m 1000m to 2000r	m 1300*1100*2000				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data Dimension (W*D*H,mm) Weigh (Kg) System Display	125% to 130 130% to 150 >150% fo	Lo rm operation; % for 10min; 9% for 1min; or 300ms 6 Normal: < 1000m 650*960*1600 358	20 to +15% wer limit: -10%, -1 50/ Selectable Range >9 >9 >9 0 ~ -40 ~ 0 ~ 95% (No. 5dB @ 100% load i; Power declined 650*960*2000 510 LED + LCD	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 12 125% to 15 >150% 6.0% 6.0% 40°C 70°C 10 condensing) 17 62dB @ 45% In 10 from 10 fr	-40% Hz term operation; 5% for 5min; 50% for 1min; % for 1s oad m 1000m to 2000r 1300*1100*2000 700	m 1300*1100*2000 700				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data Dimension (W*D*H,mm) Weigh (Kg) System Display Interface	125% to 130 130% to 150 >150% fo	Lo rm operation; % for 10min; 9% for 1min; or 300ms 6 Normal: < 1000m 650*960*1600 358	20 to +15% wer limit: -10%, -1 50/ Selectable Range >9 >9 >9 0 ~ -40 ~ 0 ~ 95% (No. 5dB @ 100% load 1; Power declined 650*960*2000 510 LED + LCD 2, RS485, USB, D	6; Upper limit: +10; 5%, -20%, -30%,	Hz term operation; 5% for 5min; 50% for 1min; % for 1s oad m 1000m to 2000r	m 1300*1100*2000 700				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data Dimension (W*D*H,mm) Weigh (Kg) System Display	125% to 130 130% to 150 >150% fo	Lo rm operation; % for 10min; % for 1min; or 300ms 6 Normal: < 1000m 650*960*1600 358 Standard: RS232	>9	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 110% to 12 125% to 15 >150% 6.0% 6.0% 40°C 70°C 70°C 70°C 70°C 70°C 70°C 70°C 7	0ad m 1000m to 2000r 1300*1100*2000 700 onal: SNMP, AS400	m 1300*1100*2000 700				
Voltage Voltage Range Frequency Frequency Range Bypass Overload Efficiency Normal Operation Battery Operation Environmental Operation Temperature Storage Temperature Relative Humidity Noise (1m from surface) Altitude Physical data Dimension (W*D*H,mm) Weigh (Kg) System Display Interface	125% to 130 130% to 150 >150% fo	Lo rm operation; % for 10min; % for 1min; or 300ms 6 Normal: < 1000m 650*960*1600 358 Standard: RS232	Standard: Baulle Kit, Lightning	6; Upper limit: +10 5%, -20%, -30%, 60Hz 110% Long to 110% to 12 125% to 15 >150% 6.0% 6.0% 40°C 70°C 70°C 70°C 70°C 70°C 70°C 70°C 7	oad m 1000m to 2000r 1300*1100*2000 700 nnal: SNMP, AS400	m 1300*1100*2000 700				

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