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%

10-80KVA

High Power Density
Parallel up to 8 units (10-40KVA)
Parallel up to 1500KVA (500KVA*3 units in parallel)
Compact size design, saving valuable space

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

60-120KVA

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)

150-500KVA

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

Specifications

Model	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 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	1				
Current THDi	<4% (full Linear Load)		<3% (full Linear Load)		
Output					
Inverter Voltage	380/400/415VAC (Line-Line)				
Inverter Frequency	50/60Hz				
Output Power Factor	1				
Voltage Precision	±1.5% (0-100% Linear load)				
Transient Response	<5% for step load (20% - 80% -20%)				
Transient recovery	< 30ms for step load (20% - 100% -20%)				
Output Voltage THDu	<1% (linear load); <5.5% (non-linear load) according to IEC/EN62040-3		<1% linear load; <6% (non-linear load) according to IEC/EN62040-3		
Inverter Overload	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%				
Synchronized Range	Default: ±3Hz Settable Range: ±0.5Hz to ±5Hz				
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 = 20% System Power				
Bypass Input					
Voltage	380/400/415VAC (Line-Line)				
Voltage Range	Selectable, default -20% to +15%; Upper limit: +10%, +15%, +20%, +25%; Lower limit: -10%, -15%, -20%, -30%, -40%				
Frequency	50/60Hz				
Frequency Range	Selectable Range: ±1Hz, ±3Hz, ±5Hz				
Bypass Overload	125% Long term operation; 125% to 130% for 10min; 130% to 150% for 1min				
Efficiency					
Normal Operation	95.0% MAX		>95.0%		>96.0%
Battery Operation	94.5% MAX		>95.0%		>96.0%
Environmental					
Operation Temperature	0 ~ 40°C				
Storage Temperature	-40 ~ 70°C				
Relative Humidity	0 ~ 95% (Non condensing)				
Noise (1m from surface)	58dB @ 100% load / 52dB @ 45% load		65dB @ 100% load / 62dB @ 45% load		
Altitude	Normal: < 1000m; Power decrined 1% per 100m from 1000m to 2000m				
Physical data					
Dimension (W*D*H,mm)	250*840*715	250*840*715	350*738*1335	350*738*1335	500*840*1400
Weigth (Kg) (Without battery)	51.5	51.5	89	89	140
System					
Display	LED + LCD touch screen				
Interface	Standard: RS232, RS485, Dry contact / Optional: SNMP				
Other function	Standard: Battery Cold Start Optional: Parallel Kit				
Maximum parallel qty	8 units				

Specifications

Model	VGDII-60K33	VGDII-80K33	VGDII-90K33	VGDII-100K33	VGDII-120K33
Capacity					
Capacity (VA)	60KVA	80KVA	90KVA	100KVA	120KVA
Capacity (Watts)	60KW	80KW	90KW	100KW	120KW
Main Input					
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	1				
Current THDi	<3% (full Linear Load)				
Output					
Inverter Voltage	380/400/415VAC (Line-Line)				
Inverter Frequency	50/60Hz				
Output Power Factor	1				
Voltage Precision	±1%				
Transient Response	<5% for step load (20% - 80% -20%)				
Transient recovery	< 30ms for step load (0% - 100% -0%)				
Output Voltage THDu	<1% from 0% to 100% linear load <5% full non-linear load according to IEC/EN62040-3				
Inverter Overload	<110%, 60min; 110%~125%, 10min; 125%~150%, 1min; >150%, 200ms				
Frequency Regulation	50/60Hz ± 0.01%				
Synchronized Range	Default: ±3Hz Settable Range: ±0.5Hz to ±5Hz				
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 = 20% *Output Power				
Bypass Input					
Voltage	380/400/415VAC (Line-Line)				
Voltage Range	Selectable, default -20% to +15%; Upper limit: +10%, +15%, +20%, +25%; Lower limit: -10%, -15%, -20%, -30%, -40%				
Frequency	50/60Hz				
Frequency Range	Selectable Range: ±1Hz, ±3Hz, ±5Hz				
Bypass Overload	125% Long term operation; 125% to 130% for 10min; 130% to 150% for 1min; >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 condensing)				
Noise (1m from surface)	65dB @ 100% load / 62dB @ 45% load				
Altitude	Normal: < 1000m; Power decrined 1% per 100m from 1000m to 2000m				
Physical data					
Dimension (W*D*H,mm)	600*980*950	600*980*1150	600*980*1400	600*980*1150	600*980*1400
Weigth (Kg)	170	210	231	210	266
System					
Display	LED + LCD touch screen				
Interface	Standard: RS232, RS485, USB, Dry contact / Optional: SNMP, AS400				
Other function	Standard: Battery Cold Start Optional: Parallel Kit, Lightning protection components, Dust filter				
Maximum parallel q'ty	4 units				

Specifications

Model	VGDII-150K33	VGDII-200K33	VGDII-250K33	VGDII-300K33	VGDII-400K33	VGDII-500K33
Capacity						
Capacity (VA)	150KVA	200KVA	250KVA	300KVA	400KVA	500KVA
Capacity (Watts)	150KW	200KW	250KW	300KW	400KW	500KW
Main Input						
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	1					
Current THDi	<3% (full Linear Load)					
Output						
Inverter Voltage	380/400/415VAC (Line-Line)					
Inverter Frequency	50/60Hz					
Output Power Factor	1					
Voltage Precision	±1%					
Transient Response	<5% for step load (20% - 80% -20%)					
Transient recovery	< 30ms for step load (0% - 100% -0%)					
Output Voltage THDu	<1% from 0% to 100% linear load <5% full non-linear load according to IEC/EN62040-3					
Inverter Overload	<110%, 60min; 110%~125%, 10min; 125%~150%, 1min; >150%, 200ms					
Frequency Regulation	50/60Hz ± 0.01%					
Synchronized Range	Default: ±3Hz Settable Range: ±0.5Hz to ±5Hz					
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 = 20% *Output Power					
Bypass Input						
Voltage	380/400/415VAC (Line-Line)					
Voltage Range	Selectable, default -20% to +15%; Upper limit: +10%, +15%, +20%, +25%; Lower limit: -10%, -15%, -20%, -30%, -40%					
Frequency	50/60Hz					
Frequency Range	Selectable Range: ±1Hz, ±3Hz, ±5Hz					
Bypass Overload	125% Long term operation; 125% to 130% for 10min; 130% to 150% for 1min; >150% for 300ms		110% Long term operation; 110% to 125% for 5min; 125% to 150% for 1min; >150% for 1s			
Efficiency						
Normal Operation	>96.0%					
Battery Operation	>96.0%					
Environmental						
Operation Temperature	0 ~ 40°C					
Storage Temperature	-40 ~ 70°C					
Relative Humidity	0 ~ 95% (Non condensing)					
Noise (1m from surface)	65dB @ 100% load / 62dB @ 45% load					
Altitude	Normal: < 1000m; Power decrined 1% per 100m from 1000m to 2000m					
Physical data						
Dimension (W*D*H,mm)	650*960*1600	650*960*1600	650*960*2000	650*960*2000	1300*1100*2000	1300*1100*2000
Weigth (Kg)	305	350	445	490	810	900
System						
Display	LED + LCD touch screen					
Interface	Standard: RS232, RS485, USB, Dry contact / Optional: SNMP, AS400					
Other function	Standard: Battery Cold Start Optional: Parallel Kit, Lightning protection components, Dust filter					
Maximum parallel q'ty	4 units				3 units	

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