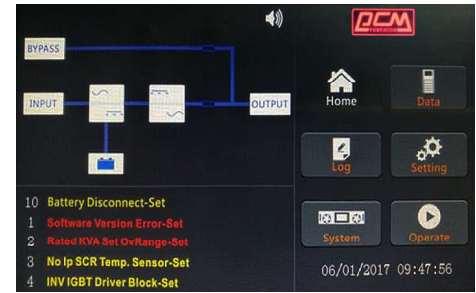


# VGDI-33

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%

### 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

### 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



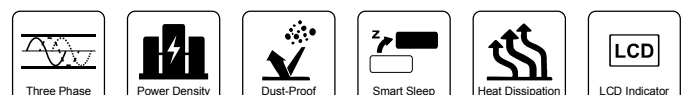
10-40KVA



60-120KVA



150-500KVA



## 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					
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 declined 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
Weigh (Kg) (Without battery)	53	50	96	96	164
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 q'tv	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					
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 declined 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
Weigh (Kg)	178	255	255	229	288
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						
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 declined 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
Weigh (Kg)	312	358	510	510	700	700
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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