

VGDII Modular UPS (10K/15KVA Power module)

The best choice for network servers and small data center.



Main Feature

Excellent Power Adaptability

High efficiency 95% performance

Voltage range: 304-478 VAC

Input THDi <4%

Rack Modular Design

Easy installation & maintenance

Flexible power expansion

High Efficiency Load Distribution

Maintenance system efficiency even in low load

User-friendly operation

Smart sleep function

Data Center Solution

Compact size design

Systemize cabinet configuration

Easy reading and control Interface

Intelligent Monitor Management

In-time model status

Smart charging design

Critical component running time

Simulated Load Test

Preemptive on field setting and factory testing

Load simulated without connected to real load

Self-aging test



VGDII-020M/10
VGDII-030M/15



VGDII-040M/10



VGDII-030M/10
VGDII-045M/15



VGDII-060M/10
VGDII-090M/15



Three Phase



Power Density



Smart Sleep



LCD Indicator

Specifications

Model	VGDI-020M/10	VGDI-030M/10	VGDI-040M/10	VGDI-060M/10	VGDI-030M/15	VGDI-045M/15	VGDI-090M/15
PHASE	3 phase in/3 phase out						
System Capacity							
Max. Capacity (VA)	20 KVA	30 KVA	40 KVA	60 KVA	30 KVA	45 KVA	90 KVA
Max. Capacity (Watts)	20 KW	30 KW	40 KW	60 KW	30 KW	45 KW	90 KW
Power Module Capacity	10KVA/10KW				15KVA/15KW		
Max. Power Module No.	2	3	4	6	2	3	6
Main Input							
Grid System	3 Phases + Neutral + Ground						
Voltage	380 / 400 / 415 VAC (Line-Line)						
Voltage Range	Full load : 304~478Vac (line-line), Others : 228V~304Vac (line-line), load decreases linearly according to the min phase voltage						
Frequency	50 / 60Hz						
Frequency Range	40Hz to 70Hz						
Power Factor	>0.99						
Current THDi	<4% (full Linear Load)						
Dual Input	Standard						
Output							
Inverter Voltage	380 / 400 / 415 VAC (Line-Line)						
Inverter Frequency	50 / 60Hz						
Output Power Factor	1						
Voltage Regulation	1% for balance load; 1.5% for unbalance load						
Frequency Precision	0.10%						
Crest factor	3:1						
Output THDu	<1.0% from 0% to 100% liner load <5.5% full non-linear load according to IEC/EN62040-3						
Inverter Overload	<102%, long time <110%, 60 min; 110%~125%, 10 min; 125% ~ 150%, 1 min; >150%, 200ms						
Battery And Charger							
Battery Voltage	±240VDC						
Charger Voltage precision	1%						
Charger Power	MAX = 20% *Output Power						
Cold Start Function	Standard						
Bypass Input							
Voltage	380 / 400 / 415VAC (Line-Line)						
Voltage Range	Settable, -40% ~ +25%						
Frequency	50 / 60Hz						
Frequency Range	Settable Range: ± 1Hz, ± 3Hz, ± 5Hz						
Bypass Overload	125% Long Time Operation; 125% to 130% for 10min; 130% to 150% for 1min; >150% for 300ms				110% Long Time Operation; 110% to 130% for 5min; 130% to 150% for 1min; >150% for 300ms		
Efficiency							
Normal Operation	95%						
ECO Mode	99%						
Battery Operation	94.5%						
Environmental							
Operation Temperature	0 - 45°C						
Storage Temperature	-40 - 70°C						
Relative Humidity	0 - 95% (Non condensing)						
Noise (1m from surface)	56dB @ 50% load						
Altitude	Normal Load: <1000m; Power derated 1% per 100m From 1000 to 2000m						
Physical data							
Dimension (WxDxH) (mm)	485 x 697 x 398	485 x 751 x 575	485 x 697 x 575	485 x 751 x 1033	485 x 697 x 398	485 x 751 x 575	485 x 751 x 1033
Cabinet Weight (kg)	42	55	51	70	42	55	70
Power Module Dimension(mm)	436 x 590 x 85				436 x 590 x 85		
Power Module Weight (kg)	16				15.5		
System							
Display	7" LED + LCD Touch Screen						
Interface	Standard : RS232, RS485, Dry Contact Optional : SNMP						
Other Function	Optional : Parallel Kit, Lightning protection components						

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VGDII Modular UPS (25K/30KVA Power module)

High technology module UPS are the best choice for data center and IT applications.



Main Feature

High Power Density

300KVA in one cabinet
Paralleled up to 900KVA
25KVA module in 2U height
compact design, saving valuable space

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
Simple Reading; easy operation
Smart sleep function for energy saving

Excellent Power Adaptability

Integrated IGBT in single model
Isolated air channel and keep PCB dust free
Programmable dry contact design

Humanize Touch Screen

Graphic and colorful display
In-time UPS status monitor
Isolated LCD on each power module

Intelligent Monitor Management

In-time model status
Smart charging design
Critical component running time



VGDII-150M/25



VGDII-150M/25
(with PDU)



VGDII-200M/25



VGDII-180M/30



VGDII-300M/30



VGDII-600M/30



Three Phase



Power Density



Smart Sleep



LCD Indicator

Specifications

Model	VGDII-150M/25	VGDII-150M/25 (with PDU)	VGDII-200M/25	VGDII-180M/30	VGDII-300M/30	VGDII-600M/30
PHASE	3 phase in/3 phase out					
System Capacity						
Max. Capacity (VA)	150 KVA	150 KVA	200 KVA	180 KVA	300 KVA	600 KVA
Max. Capacity (Watts)	150 KW	150 KW	200 KW	180 KW	300 KW	600 KW
Power Module Capacity	25VA/25KW			30KVA/30KW		
Max. Power Module No.	6	6	8	6	10	20
Main Input						
Grid System	3 Phases + Neutral + Ground					
Voltage	380 / 400 / 415 VAC (Line-Line)					
Voltage Range	Full Load : 304 ~ 478 VAC (Line-Line) Other : 228 ~ 304 VAC (Line-Line) (load decreases linearly according to the min phase voltage)					
Frequency	50 / 60Hz					
Frequency Range	40Hz to 70Hz					
Power Factor	>0.99					
Current THDi	<3% (full Linear Load)					
Dual Input	Optional		Standard	Optional		
Output						
Inverter Voltage	380 / 400 / 415 VAC (Line-Line)					
Inverter Frequency	50 / 60Hz					
Output Power Factor	1					
Voltage Regulation	± 1(0~100% linear load)			1% for balance load; 1.5% for unbalance load		
Frequency Precision	0.1%					
Crest Factor	3:1					
Output THDu	<1.0% from 0% to 100% liner load <6% full non-linear load according to IEC/EN62040-3					
Inverter Overload	<110%, 60 min; 110%~125%, 10 min; 125% ~ 150%, 1 min; >150%, 200ms					
Battery And Charger						
Battery Voltage	±240VDC					
Charger Voltage precision	1%					
Charger Power	MAX = 20% *Output Power					
Cold Start Function	Standard					
Bypass Input						
Voltage	380 / 400 / 415VAC (Line-Line)					
Voltage Range	Settable, -40% ~ +25%					
Frequency						
Frequency Range	50 / 60Hz					
	Settable Range: ± 1Hz, ± 3Hz, ± 5Hz					
Bypass Overload	110% for 60min; 110% to 125% for 10min; 125% to 150% for 1min; >150% for 200ms			110% Long Time Operation; 110% to 125% for 5min; 125% to 150% for 1min; >150% for 200ms		
Efficiency						
Normal Operation	96.0%			>95%		
ECO Operation	98%			>99%		
Battery Operation	95.5%			>95%		
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			72dB @ 100% load, 68dB @ 45% load		
Altitude	Normal Load: <1000m; Power derated 1% per 100m From 1000 to 2000m					
Physical data						
Dimension (WxDxH) (mm)	482 x 943 x 931	482 x 943 x 1058	482 x 943 x 1550	600 x 1100 x 1600	600 x 1100 x 2000	2000 x 1050 x 2000
Cabinet Weight (kg)	92	129	136	216	292	700
Power Module Dimension (mm)	436 x 677 x 85			460 x 790 x 134		
Power Module Weight (kg)	21			36		
System						
Display	7" LED + LCD Touch Screen			10.4" LED + LCD Touch Screen+Keyboard		
Interface	Standard :RS232, RS485, Dry Contact Optional :SNMP			Standard :RS232, RS485, USB, Dry Contact Optional :SNMP, AS400, Expansion dry contact card		
Other Function	Optional :Parallel Kit, Lightning protection components : PDU for VGDII-150M / 25			Optional :Parallel Kit, Lightning protection components, Dust Filter		

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VGDII Modular UPS (40K/50KVA Power module)

1500KVA high power density model provide the best space planning for medium and large facilities.



Main Feature

High Power Density

500KVA in one cabinet

Paralleled up to 1500KVA

Compact design, saving valuable space

Great Power Availability

High efficiency 95% performance

Wide voltage 304-478 VAC

Input THDi <3%

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

Simple Reading; easy operation

Smart sleep function for energy saving

Intelligent Monitor Management

In-time model status

Smart charging design

Critical component running time

Humanize Colorful Indication

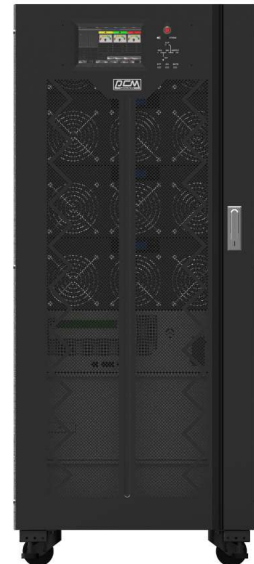
Colorful touch screen

Graphic design for easy reading

Isolated LCD on each power module



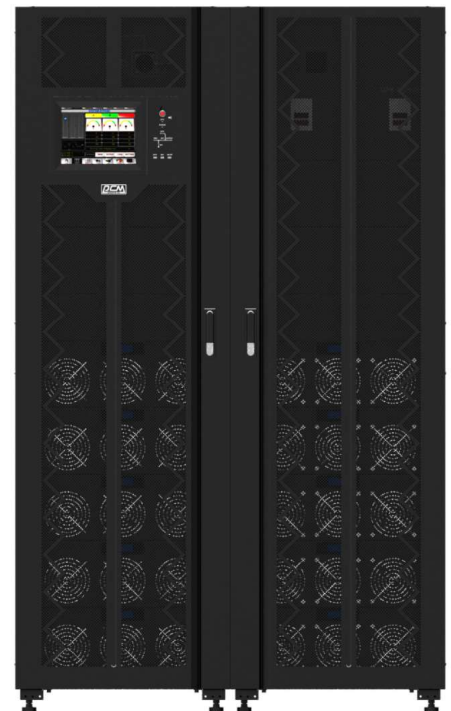
VGDII-080M/40
VGDII-100M/50



VGDII-160M/40
VGDII-200M/50



VGDII-240M/40
VGDII-300M/50



VGDII-400M/40
VGDII-500M/50



Three Phase



Power Density



Smart Sleep



LCD Indicator

Specifications

Model	VGDI-080M/40	VGDI-160M/40	VGDI-240M/40	VGDI-400M/40	VGDI-100M/50	VGDI-200M/50	VGDI-300M/50	VGDI-500M/50
PHASE	3 phase in/3 phase out							
System Capacity								
Max. Capacity (VA)	80 KVA	160 KVA	240 KVA	400 KVA	100 KVA	200 KVA	300 KVA	500 KVA
Max. Capacity (Watts)	80 KW	160 KW	240 KW	400 KW	100 KW	200 KW	300 KW	500 KW
Power Module Capacity	40KVA/40KW				50KVA/50KW			
Max. Power Module No.	2	4	6	10	2	4	6	10
Main Input								
Grid System	3 Phases + Neutral + Ground							
Voltage	380 / 400 / 415 VAC (Line-Line)							
Voltage Range	Full load : 304~478Vac (line-line), Others : 228V~304Vac (line-line), load decreases linearly according to the min phase voltage							
Frequency	50 / 60Hz							
Frequency Range	40Hz to 70Hz							
Power Factor	>0.99							
Current THDi	<3% (full Linear Load)							
Dual Input	Standard	Optional	Standard	Standard	Optional	Standard	Optional	Standard
Output								
Inverter Voltage	380 / 400 / 415 VAC (Line-Line)							
Inverter Frequency	50 / 60Hz							
Output Power Factor	1							
Voltage Regulation	1% for balance load; 1.5% for unbalance load							
Frequency Precision	0.1%							
Crest Factor	3:1							
Output THDu	<1.0% from 0% to 100% liner load <5.5% full non-linear load according to IEC/EN62040-3							
Inverter Overload	<110%, 60 min; 110%~125%, 10 min; 125% ~ 150%, 1 min; >150%, 200ms							
Battery And Charger								
Battery Voltage	±240VDC							
Charger Voltage precision	1%							
Charger Power	MAX = 20% *Output Power							
Battery Number	40pcs							
Cold Start Function	Standard							
Bypass Input								
Voltage	380 / 400 / 415VAC (Line-Line)							
Voltage Range	Settable, -40% ~ +25%							
Frequency	50 / 60Hz							
Frequency Range	Settable Range: ± 1Hz, ± 3Hz, ± 5Hz							
Bypass Overload	125% Long Time Operation; 125% to 130% for 10min; 130% to 150% for 1min; >150% for 300ms	110% Long Time Operation; 110% to 125% for 5min; 125% to 150% for 1min; >150% for 1s	125% Long Time Operation; 125% to 130% for 10min; 130% to 150% for 1min; >150% for 300ms	110% Long Time Operation; 110% to 130% for 5min; 130% to 150% for 1min; >150% for 1s				
Efficiency								
Normal Operation	95%							
ECO Mode	99%							
Battery Operation	95%							
Environmental								
Operation Temperature	0 - 40°C							
Storage Temperature	-40 - 70°C							
Relative Humidity	0 - 95% (Non condensing)							
Noise (1m from surface)	72dB @ 100% load / 69dB @ 45% load							
Altitude	Normal Load: <1000m; Power derated 1% per 100m From 1000 to 2000m							
Physical data								
Dimension (WxDxH) (mm)	600 x 980 x 1150	650 x 960 x 1600	650 x 1095 x 2000	1300 x 1100 x 2000	600 x 980 x 1150	650 x 960 x 1600	650 x 1095 x 2000	1300 x 1100 x 2000
Cabinet Weight (kg)	228	258	510	700	228	258	510	700
Power Module Dimension (WxDxH) (mm)	510 x 700 x 178				510 x 700 x 178			
Power Module Weight (kg)	44				44			
System								
Display	10.4" LED + LCD Touch Screen+Keyboard							
Interface	Standard : RS232, RS485, USB, Dry Contact Optional : SNMP							
Other Function	Optional : Parallel Kit, Lightning protection components, Dust Filter							

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