Three Phase UPS 10-1500KVA

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
Voltage Range: 228-478 VAC
Frequency Range: 40-70Hz (Generator acceptable)
THDi< 3%

· Expandable Charging Function
Charging current adjustable from LCD
Charging power up to 20% system power
Charging modular 15 or 50A adaptable (option)

· Advance Energy Technology
Parallel up to 8 units (10K-40KVA)
Parallel up to 1500KVA (60-500KVA)
High Energy efficiency up to 96%
Hot swap function available (option)

· Thoughtful User Interface
Up to 10.4 inches LCD Touch screen
Visualized UPS status
Front and back door for easy maintenance

· Compact Size
High Power density maximum up to 405 kW/m²
Battery Q'ty adjustable
Top / bottom wire entry available (option)

· High Environment Adability
High heat dissipation efficiency
Coating guarantees reliability
No load self burn-in test available

· Additional function available (option)
Isolation Transformer available
Load Bus Synchronization system (LBS) available
Battery Temperature Sensor for ABM system available


10-40KVA


60-120KVA


200-500KVA

Three Phase | Power Density | Dust-Proof | Smart Sleep | Heat Dissipation | LCD Indicator

THYTRON

Three Phase UPS 10-40KVA

Specifications

Model	VGD II 10K33	VGD II 15K33	VGD II 20K33	VGD II 30K33	VGD II 40K33
Capacity					
Capacity (VA)	10 KVA	15 KVA	20 KVA	30 KVA	40 KVA
Capacity (Watts)	10 KW	15 KW	20 KW	30 KW	40 KW
Main Input					
Grid System	3 Phases + Neutral + Ground				
Voltage	380 / 400 / 415VAC (Line-Line)				
Voltage Range	Full Load : 304 to 478VAC (Line-Line) Other : 228 to 478VAC (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)		<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 (0% -> 100% -> 0%)				
Output THDv	<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%, 60 min 110% to 125%, 60-10 min 125% to 150%, 10-1 min		100% to 110%, 30 min 110% to 125%, 30-5 min 125% to 150%, 5 min-10 sec		
Frequency Regulation	50 / 60Hz ±0.1%				
Synchronized Range	Default Range : ±3 Hz Settable Range : ±0.5 Hz to ±5 Hz				
Synchronized Slew Rate	Default Range : 0.5 Hz/s Settable Range : 0.5 Hz/s to 3 Hz/s				
Battery And Charger					
Battery Voltage	±240VDC (12V 20+20pcs)				
Charger Voltage Precision	1%				
Charger Power	MAX = 20% System Power				
Bypass Input					
Voltage	380 / 400 / 415VAC (Line-Line)				
Voltage Range	Default : -20% to +15% Selectable Upper Limit : +10%, +15%, +20%, +25% Selectable Lower Limit : -10%, -15%, -20%, -30%, -40%				
Frequency	50 / 60Hz				
Frequency Range	Selectable Range: ± 1Hz, ± 3Hz, ± 5Hz				
Bypass Overload	125% Long Time Operation 125% to 130% for 10min 130% to 150% for 1min				
Efficiency					
Normal Operation	95.0% MAX		>95%		>96%
Battery Operation	94.5% MAX		>95%		>96%
Static Transfer Switch					
Inverter to Bypass	0 ms				
Bypass to Inverter	0 ms				
Transfer Efficiency	> 99%				
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 Load: <1000m Load derated 1% per 100m From 1000 to 2000m				
Physical Data					
Dimension (WxDxH)	250 x 840 x 715	250 x 840 x 715	350 x 738 x 1335	350 x 738 x 1335	500 x 840 x 1400
Weight (kg) (Without Battery)	51.5	51.5	89	89	140
System					
Display	LED & LCD Touch Screen				
Parallel Cabinet Q'ty	8	8	8	8	8
Interface	Standard : RS232 / RS485 Optional : SNMP / Dry Contact				
Other Function	Standard : Battery Cold Start Optional : Parallel Kit				

* 20-40KVA model performed PF 0.9 in 30-40°C environmental temperature.
** Specifications are subject to change without further notice.
** Specifications are for reference, please refer to information based on real product.

THYTRON

Three Phase UPS 60-120KVA

Specifications

Model	VGD II 60K33	VGD II 80K33	VGD II 90K33	VGD II 100K33	VGD II 120K33
Capacity					
Capacity (VA)	60 KVA	80 KVA	90 KVA	100 KVA	120 KVA
Capacity (Watts)	60 KW	80 KW	90 KW	100 KW	120 KW
Main Input					
Grid System	3 Phases + Neutral + Ground				
Voltage	380 / 400 / 415VAC (Line-Line)				
Voltage Range	Full Load : 304 to 478VAC (Line-Line) Other : 228 to 478VAC (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)				
Output					
Inverter Voltage	380 / 400 / 415VAC (Line-Line)				
Inverter Frequency	50 / 60Hz				
Output Power Factor	1*				
Voltage Precision	±2% (0-100% Linear Load)				
Transient Response	<5% for step load (20% -> 80% -> 20%)				
Transient Recovery	< 30ms for step load (0% -> 100% -> 0%)				
Output THDv	<1.5% (Linear load) <6% (non-linear load) according to IEC/EN62040-3				
Inverter Overload	100% to 110%, 60 min 110% to 125%, 60-10 min 125% to 150%, 10-1 min			100% to 110%, 30 min 110% to 125%, 30-5 min 125% to 150%, 5 min-10 sec	100% to 110%, 60 min 110% to 125%, 60-10 min 125% to 150%, 10-1 min
Frequency Regulation	50 / 60Hz ±0.1%				
Synchronized Range	Default Range : ±3 Hz Settable Range : ±0.5 Hz to ±5 Hz				
Synchronized Slew Rate	Default Range : 0.5 Hz/s Settable Range : 0.5 Hz/s to 3 Hz/s				
Battery And Charger					
Battery Voltage	±240VDC (12V 20+20pcs)				
Charger Voltage precision	1%				
Charger Power	MAX = 20% System Power				
Bypass Input					
Voltage	380 / 400 / 415VAC (Line-Line)				
Voltage Range	Default : -20%, +15% Selectable Upper Limit : +10%, +15%, +20%, +25% Selectable Lower Limit : -10%, -15%, -20%, -30%, -40%				
Frequency	50 / 60Hz				
Frequency Range	Selectable Range: ± 1Hz, ± 3Hz, ± 5Hz				
Bypass Overload	125% for Long Time Operation 125% to 130% for 10min 130% to 150% for 1min Over 150% for 300ms				
Efficiency					
Normal Operation	>95%	>96%	>95%	>96%	>95%
Battery Operation	>95%	>96%	>95%	>96%	>95%
Static Transfer Switch					
Inverter to Bypass	0 ms				
Bypass to Inverter	0 ms				
Transfer Efficiency	> 99%				
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 Load: <1000m Load derated 1% per 100m From 1000 to 2000m				
Physical data					
Dimension (W x D x H) (mm)	600 x 980 x 950	600 x 980 x 1150	600 x 980 x 1400	600 x 980 x 1150	600 x 980 x 1400
Weight (kg) (Without Battery)	170	210	231	210	266
System					
Display	Standard : LED & LCD Touch Screen				
Parallel Cabinet Q'ty	8	8	7	8	7
Interface	Standard : RS232 / RS485 / USB Optional : SNMP / Dry Contact				
Protections	Optional : Lightning Protection Components / Dust Filter				
Other Function	Optional : Battery Cold Start / Parallel Kit / Load Bus Synchronization				

* 20-40KVA model performed PF 0.9 in 30-40°C environmental temperature.
** Specifications are subject to change without further notice.
** Specifications are for reference, please refer to information based on real product.

THYTRON

Three Phase UPS 150-1500KVA

Specifications

Model	VGD II 150K33	VGD II 200K33	VGD II 250K33	VGD II 300K33	VGD II 400K33	VGD II 500K33
Capacity						
Capacity (VA)	150 KVA	200 KVA	250 KVA	300 KVA	400 KVA	500 KVA
Capacity (Watts)	150 KW	200 KW	250 KW	300 KW	400 KW	500 KW
Main Input						
Grid System	3 Phases + Neutral + Ground					
Voltage	380 / 400 / 415VAC (Line-Line)					
Voltage Range	Full Load : 304 to 478VAC (Line-Line) Other : 228 to 478VAC (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)					
Output						
Inverter Voltage	380 / 400 / 415VAC (Line-Line)					
Inverter Frequency	50 / 60Hz					
Output Power Factor	1*					
Voltage Precision	±2% (0-100% Linear Load)					
Transient Response	<5% for step load (20% -> 80% -> 20%)					
Transient Recovery	< 30ms for step load (0% -> 100% -> 0%)					
Output THDv	<1.5% (Linear Load) <6% (non-linear load) according to IEC/EN62040-3					
Inverter Overload	100% to 110%, 30 min 110% to 125%, 30-5 min 125% to 150%, 5 min-10 sec					
Frequency Regulation	50 / 60Hz ±0.1%					
Synchronized Range	Default Range : ±3 Hz Settable Range : ±0.5 Hz to ±5 Hz					
Synchronized Slew Rate	Default Range : 0.5 Hz/s Settable Range : 0.5 Hz/s to 3 Hz/s					
Battery And Charger						
Battery Voltage	±240VDC (12V 20+20pcs)					
Charger Voltage precision	1%					
Charger Power	MAX = 20% System Power					
Bypass Input						
Voltage	380 / 400 / 415VAC (Line-Line)					
Voltage Range	Default : -20%, +15% Selectable Upper Limit : +10%, +15%, +20%, +25% Selectable Lower Limit : -10%, -15%, -20%, -30%, -40%					
Frequency	50 / 60Hz					
Frequency Range	Selectable Range: ± 1Hz, ± 3Hz, ± 5Hz					
Bypass Overload	125% for Long Time Operation 125% to 130% for 10min 130% to 150% for 1min Over 150% for 300ms		110% for Long Time Operation 110% to 125% for 5min 125% to 150% for 1min Over 150% for 1s			
Efficiency						
Normal Operation	>96%					
Battery Operation	>96%					
Static Transfer Switch						
Inverter to Bypass	0 ms					
Bypass to Inverter	0 ms					
Transfer Efficiency	> 99%					
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 Load: <1000m Load derated 1% per 100m From 1000 to 2000m					
Physical data						
Dimension (WxDxH) (mm)	650 x 960 x 1600	650 x 960 x 1600	650 x 960 x 2000	650 x 960 x 2000	1300 x 1100 x 2000	1300 x 1100 x 2000
Weight (kg) (Without Battery)	305	350	445	490	810	900
System						
Display	LED & LCD + Touch Screen					
Parallel Cabinet Q'ty	7	7	5	5	3	3
Interface	Standard : RS232 / RS485 / USB Optional : SNMP / Dry Contact					
Protections	Optional : Lightning Protection Components / Dust Filter					
Other Function	Optional : Battery Cold Start		Standard : Battery Cold Start			
	Optional : Parallel Kit / Load Bus Synchronization					

* 20-40KVA model performed PF 0.9 in 30-40°C environmental temperature.
** Specifications are subject to change without further notice.
** Specifications are for reference, please refer to information based on real product.

THYTRON