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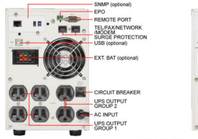
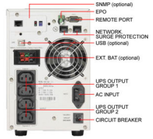
VGD-700~1500 (120V)





VGD-700~1500 (230V)

Specifications

Tower model (with LCD display)		VGD-700	VGD-1000	VGD-1500	VGD-2000	VGD-3000	VGD-5000	VGD-6000
19" rack-mount model		VGD-700-RM	VGD-1000-RM	VGD-1500-RM	VGD-2000-RM	VGD-3000-RM	VGD-5000-RM	VGD-6000-RM
CAPACITY	Capacity (VA)	700VA	1000VA	1500VA	2000VA	3000VA	5000VA	6000VA
	Capacity (W)	490W	700W	1050W	1400W	2100W	3500W	4200W
INPUT	Voltage / Load	100V, 110V, 115V, 120V, 127V				208V, 220V, 230V, 240V		
		Voltage / Range	Load Capacity	Voltage / Range	Load Capacity	Voltage / Range	Load Capacity	
		60 ~ 69V	0 ~ 40%	120 ~ 139V	0 ~ 40%	120 ~ 139V	0 ~ 25%	
		70 ~ 79V	0 ~ 70%	140 ~ 159V	0 ~ 70%	140 ~ 159V	0 ~ 40%	
		80 ~ 144V	0 ~ 100%	160 ~ 276V	0 ~ 100%	160 ~ 179V	0 ~ 75%	
	Frequency	50 / 60 Hz Auto Sensing						
OUTPUT	Voltage (on battery)	100V, 110V, 115V, 120V, 127V / 208V, 220V, 230V, 240V +/-2% (Selectable Output Voltage)						
	Frequency (on battery)	50 / 60 Hz +/-0.5%						
	Transfer Time	0 ms						
	Overload Recovery	Auto transfer to UPS						
	High Efficiency mode (AC to AC)	> 95 %						
	UPS Design Technology	On-Line / Fully digitized microprocessor controlled						
	Output Wave Form	Sinewave						
	Harmonic distortion	< 3% of T.H.D. at linear load						
	Crest Factor	3 : 1						
PROTECTION AND FILTERING	Surge Protection	120V (IEEE C62.41) / 230V (IEEEC61000-4-5 level 3)						
	Overload Protection	125% for 1 minutes and 150% for 10 seconds						
	Short Circuit Protection	UPS output cut off immediately or input fuse / circuit breaker protection						
SYSTEM	Visual Display (LED model)	UPS on(green), line-mode(green), battery mode(yellow), bypass(yellow), fault(red)						
DISPLAY / WARNING	Visual Display (LCD model)	Input / output voltage, input / output frequency, on-line mode, back up mode, battery capacity, load level						
	Audible Alarm (Battery back-up)	Beep every 5 sec						
	UPS Fault	Continuous beeping sound and LCD display						
	Communication	RS-232 Serial Port and USB						
BATTERY	Type	Sealed, maintenance-free lead acid batteries						
	DC Voltage (V) Battery (Tower)	24V / 12V7.2AH x 2	36V / 12V7.2AH x 3	36V / 12V9AH x 3	72V / 12V7.2AH x 6	72V / 12V9AH x 6	240V / 12V7.2AH x 20	
	DC Voltage (V) Battery (1U)	24V / 6V7.2AH x 4		None				
	DC Voltage (V) Battery (2U)	24V / 12V7.2AH x 2	36V / 12V7.2AH x 3	36V / 12V9AH x 3	72V / 12V7.2AH x 6	72V / 12V9AH x 6	None	
	DC Voltage (V) Battery (6U)	None					240V / 12V7.2AH x 20	
	Typical Recharge Time to 90% Full	4 hours						
	Management	Self-test, adjustable battery transfer points and alarm settings						
	Battery Protection	Cut off without draining any current when battery is low						
	Cold Start (DC start)	YES						
	Back Up Time (Tower model)	7 min	7 min	6 min	7 min	6 min	9 min	7 min
	Back Up Time (Full Load)	2U* = 7 min,1U = 7 min	2U* = 7 min,1U = 4 min	6 min	7 min	6 min	9 min	7 min
	Back Up Time (Half Load)	2U* = 15 min,1U = 15 min	2U* = 15 min,1U = 10 min	15 min	15 min	15 min	27 min	20 min
PHYSICAL	Input Inlet	NEMA 5-15 (120V) / IEC 320 (230V)						
	Receptacles	NEMA 5-15 (120V) / IEC 320 (230V)						
	Total Receptacles (UPS+Surge / Surge Only)	6 (120V) 4 (230V)			12 (120V) 8 (230V)		Hardwire	
	Tower Dimensions Inches mm (inch) W x D x H	152 x 420 x 238 (6.0" x 16.5" x 9.4")			225 x 425 x 360 (8.9" x 16.7" x 14.2")		257 x 590 x 570 (10.1"x23.2"x22.4")	
	Net Weight kg (lb) Tower model	13.5 (29.7)	16.2 (35.6)	17.0 (37.4)	31.1 (68.4)	33.0 (72.6)	86.0 (189.2)	
	Shipping Weight kg (lb) Tower model	15.5 (34.1)	18.2 (40.0)	19.0 (41.8)	33.6 (73.9)	35.5 (78.1)	106.0 (233.2)	
	19" rack-mount Dimensions	428 x 525 x 44 (16.9" x 20.7" x 1.7") 1U			None		428 x 558 x 130 (16.9" x 22.0" x 5.1") 3U	
	Inches mm (inch) W x D x H	428 x 425 x 84 (16.9" x 16.7" x 3.3") 2U			428 x 635 x 84 (16.9" x 25.0" x 3.3") 2U		428 x 597 x 130 (Battery Module)	
	Net Weight kg (lb) 19" rack-mount	1U=15.5(34.1), 2U=14.6(32.1)	1U=15.5(34.1), 2U=17.1(37.6)	18.1 (39.8)	31.6 (69.5)	32.5 (71.5)	54 (118.8)	20(44.0) 66(145.2)
	Shipping Weight kg (lb) 19" rack-mount	1U=17.5(38.5), 2U=16.4(36.1)	1U=17.5(38.5), 2U=19.3(42.5)	20.1 (44.2)	33.8 (74.4)	35.7 (78.5)	63 (138.6)	24(52.8) 70(154.0)
ENVIRONMENT	Operating Temperature	0 - 40°C / 32 ~ 104°F						
	Storage Temperature	-20 ~ 50°C / -4 ~ 122°F						
	Altitude	3,500 meters max						
	Audible Noise (1 meter from surface)	< 40 dBA						
	Relative Humidity	0 ~ 95% humidity, non-condensing						
CONFORMANCE	Safety	UL 1778, CE						
	EMC (EMS / EMI)	IEC 61000-4, FCC Part 15, CISPR 22						
	Warranty	2 years						
	Equipment Protection Policy	Warranty policy may vary depends on region						

* Back up time of 2U rack mount models are equivalent to Tower models.

DM-VDG700-20K-050103

Specifications

Tower model (with LCD display)		VGD-6000	VGD-8000	VGD-10000	VGD-12000	VGD-15000	VGD-20000
CAPACITY	Capacity (VA)	6000VA	8000VA	10000VA	12000VA	15000VA	20000VA
	Capacity (W)	4200W	5600W	7000W	8400W	10500W	14000W
INPUT	Voltage / Load	208V, 220V, 230V, 240V					
		Voltage / Range	Load Capacity	Voltage / Range	Load Capacity		
		120 ~ 139V	0 ~ 25%				
		140 ~ 159V	0 ~ 50%	180 ~ 276V	0 ~ 100%		
		160 ~ 179V	0 ~ 75%				
	Frequency	50 / 60 Hz Auto Sensing					
OUTPUT	Voltage (on battery)	100V, 110V, 115V, 120V / 208V, 220V, 230V, 240V +/-2% (Selectable Output Voltage)					
	Frequency (on battery)	50 / 60 Hz +/-0.5%					
	Transfer Time	0 ms					
	Overload Recovery	Auto transfer to UPS					
	High Efficiency mode (AC to AC)	> 97 %					
	UPS Design Technology	On-Line / Fully digitized microprocessor controlled					
	Output Wave Form	Sinewave					
	Harmonic distortion	< 3% of T.H.D. at linear load					
	Crest Factor	3 : 1					
PROTECTION AND FILTERING	Surge Protection	IEC61000-4-5 level 3					
	Overload Protection	125% for 1 minutes and 150% for 10 seconds (On-line) 130% for 10 seconds and 150% for 1.5 seconds (On-battery)					
	Short Circuit Protection	UPS output cut off immediately or input fuse / circuit breaker protection					
SYSTEM	Visual Display (LED model)	UPS on(green), line-mode(green), battery mode(yellow), bypass(yellow), fault(red)					
DISPLAY / WARNING	Visual Display (LCD model)	Input / output voltage, input / output frequency, on-line mode, back up mode, battery capacity, load level					
	Audible Alarm (Battery back-up)	Beep every 5 sec					
	UPS Fault	Continuous beeping sound and LCD display					
	Communication	RS-232 Serial Port and USB					
BATTERY	Type	Sealed, maintenance-free lead acid batteries					
	DC Voltage (V) Battery (Tower)	240V / 12V7.2AH x 20	240V / 12V7.2AH x 20	240V / 12V9AH x 20	240V / 12V7.2AH x 20 2SET	240V / 12V7.2AH x 20 2SET	240V / 12V9AH x 20 2SET
	Typical Recharge Time to 90% Full	4 hours					
	Management	Self-test, adjustable battery transfer points and alarm settings					
	Battery Protection	Cut off without draining any current when battery is low					
	Cold Start (DC start)	YES					
	Back Up Time (Tower model)	About 6 min Full load / 15min Half load					
PHYSICAL	Input Inlet	Hardwire					
	Receptacles	Hardwire					
	Tower Dimensions Inches mm (inch) W x D x H W/O ISOTR	257 x 590 x 570 (10.1"x23.2"x22.4")	257 x 690 x 715 (10.1" x 27.2" x 28.1")		342 x 690 x 878 (13.5"x27.2"x34.6")		342 x 863 x 905 (13.5" x 34.0" x 35.6")	
	Net Weight kg (lb) W/O ISOTR	86.0 (189.2)	80.0 (176.0)		130.0 (286.0)		175.0 (385.0)	
	Shipping Weight kg (lb) W/O ISOTR	106.0 (233.2)	101.5 (223.3)		151.5 (333.3)		196.0 (432.3)	
	Tower Dimensions Inches mm (inch) W x D x H W ISOTR	257 x 590 x 700 (10.1"x23.2"x27.6")	342 x 690 x 715 (13.4" x 27.2" x 28.1")		342 x 690 x 878 (13.5"x27.2"x34.6")		342 x 863 x 905 (13.5" x 34.0" x 35.6")	
	Net Weight kg (lb) W ISOTR	123.0 (270.6)	130.0 (286.0)		180.0 (396.0)		225.0 (495.0)	
	Shipping Weight kg (lb) W ISOTR	145.0 (319.0)	151.5 (333.3)		201.5 (443.3)		246.5 (542.3)	
ENVIRONMENT	Operating Temperature	0 - 40°C / 32 ~ 104°F						
	Storage Temperature	-20 ~ 50°C / -4 ~ 122°F						
	Altitude	3,500 meters max						
	Audible Noise (1 meter from surface)	< 55 dBA						
	Relative Humidity	0 ~ 95% humidity, non-condensing						
CONFORMANCE	Safety	UL 1778, CE						
	EMC (EMS / EMI)	IEC 61000-4, FCC Part 15, CISPR 22						
	Warranty	2 years						
	Equipment Protection Policy	Warranty policy may vary depends on region						

Specifications

Tower model (with LCD display)		VGD-8K31	VGD-10K31	VGD-12K31	VGD-15K31	VGD-20K31
CAPACITY	Capacity (VA)	8000VA	10000VA	12000VA	15000VA	20000VA
	Capacity (W)	5600W	7000W	8400W	10500W	14000W
INPUT	Voltage / Load	208/360V, 220/380V, 230/400V, 240/415V (3Ø5W)				
		Load Capacity	Voltage / Range	Load Capacity		
		208 ~ 241V	0 ~ 25%			
		242 ~ 276V	0 ~ 40%	312 ~ 478V	0 ~ 100%	
		277 ~ 311V	0 ~ 75%			
	Frequency	50 / 60 Hz Auto Sensing				
OUTPUT	Voltage (on battery)	100V, 110V, 115V, 120V / 208V, 220V, 230V, 240V +/-2% (Selectable Output Voltage)				
	Frequency (on battery)	50 / 60 Hz +/-0.5%				
	Transfer Time	0 ms				
	Overload Recovery	Auto transfer to UPS				
	High Efficiency mode (AC to AC)	> 97 %				
	UPS Design Technology	On-Line / Fully digitized microprocessor controlled				
	Output Wave Form	Sinewave				
	Harmonic distortion	< 3% of T.H.D. at linear load				
	Crest Factor	3 : 1				
PROTECTION AND FILTERING	Surge Protection	IEC61000-4-5 level 3				
	Overload Protection	125% for 1 minutes and 150% for 10 seconds 130% for 10 seconds and 150% for 1.5 seconds (On-battery)				
	Short Circuit Protection	UPS output cut off immediately or input fuse / circuit breaker protection				
SYSTEM	Visual Display (LED model)	UPS on(green), line-mode(green), battery mode(yellow), bypass(yellow), fault(red)				
DISPLAY / WARNING	Visual Display (LCD model)	Input / output voltage, input / output frequency, on-line mode, back up mode, battery capacity, load level				
	Audible Alarm (Battery back-up)	Beep every 5 sec				
	UPS Fault	Continuous beeping sound and LCD display				
	Communication	RS-232 Serial Port and USB				
BATTERY	Type	Sealed, maintenance-free lead acid batteries				
	DC Voltage (V) Battery (Tower)	240V / 12V7.2AH x 20	240V / 12V9AH x 20	240V / 12V7.2AH x 20 2SET	240V / 12V7.2AH x 20 2SET	240V / 12V9AH x 20 2SET
	Typical Recharge Time to 90% Full	4 hours				
	Management	Self-test, adjustable battery transfer points and alarm settings				
	Battery Protection	Cut off without draining any current when battery is low				
	Cold Start (DC start)	YES				
	Back Up Time (Tower model)	About 6 min Full load / 15min Half load				
PHYSICAL	Input Inlet	Hardwire				
	Receptacles	Hardwire				
	Tower Dimensions Inches mm (inch) W x D x H W/O ISOTR	257 x 690 x 715 (10.1" x 27.2" x 28.1")		342 x 690 x 878 (13.5"x27.2"x34.6")	342 x 863 x 905 (13.5" x 34.0" x 35.6")	
	Net Weight kg (lb) W/O ISOTR	80.0 (176.0)		176.5 (388.3)	175.0 (385.0)	
	Shipping Weight kg (lb) W/O ISOTR	101.5 (223.3)		206.5 (454.3)	196.0 (432.3)	
	Tower Dimensions Inches mm (inch) W x D x H W ISOTR	342 x 690 x 878 (13.4" x 27.2" x 28.1")		342 x 690 x 878 (13.5"x27.2"x34.6")	342 x 863 x 905 (13.5" x 34.0" x 35.6")	
	Net Weight kg (lb) W ISOTR	130.0 (286.0)		178.5 (388.3)	225.0 (495.0)	
	Shipping Weight kg (lb) W ISOTR	151.5 (333.3)		206.5 (454.3)	246.5 (542.3)	
ENVIRONMENT	Operating Temperature	0 - 40°C / 32 ~ 104°F				
	Storage Temperature	-20 ~ 50°C / -4 ~ 122°F				
	Altitude	3,500 meters max				
	Audible Noise (1 meter from surface)	< 55 dBA				
	Relative Humidity	0 ~ 95% humidity, non-condensing				
CONFORMANCE	Safety	UL 1778, CE				
	EMC (EMS / EMI)	IEC 61000-4, FCC Part 15, CISPR 22				
	Warranty	2 years				
	Equipment Protection Policy	Warranty policy may vary depends on region				

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VGD-700~1500VA VGD-2K~3K VA

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