

GRANDSYNC SERIES

On-Line Pure Sine Wave UPS
Output 10~200kVA
3:3 (3-phase input / 3-phase output)



ویژگی‌ها

فناوری دابل کانورژن (TRUE ON-LINE DOUBLE CONVERSION)
شکل موج خروجی سینوسی کامل (PURE SINE WAVE OUTPUT)
طراحی ماژول‌های توان قابل تعویض با دسترسی از جلو، به منظور کاهش زمان تعمیر و بازیابی (MTTR)
قابلیت عملکرد موازی به منظور افزایش توان خروجی و قابلیت اطمینان سیستم
قابلیت Power Walk-In برای افزایش تدریجی توان و جلوگیری از شوک بار به شبکه و ژنراتور
پشتیبانی از باتری مشترک در حالت عملکرد موازی
ورودی مجزا برای مسیر بای‌پس و رکتیفایر (DUAL MAINS INPUT)
دارای چهار کلید داخلی: ورودی اصلی، بای‌پس، خروجی و بای‌پس تعمیر
انعطاف‌پذیری در تعداد و ظرفیت باتری با جریان شارژ قابل تنظیم

Model	GST-10K	GST-15K	GST-20K	GST-30K	GST-40K	GST-60K
Rated Capacity	10kVA / 9kW	15kVA / 13.5kW	20kVA / 18kW	30kVA / 30kW	40kVA / 40kW	60kVA / 60kW
No. of Phases	3-Phase In / 3-Phase Out					
Parallel Capability	N/A			Up to 4 Units		
Display						
7-inch Touch Screen	Color LCD: UPS Status, Load Level, Battery Level, Input/Output Voltage, Discharge Timer, Fault Conditions, etc.					
Input						
Nominal Voltage	3 x 380 VAC (3Ph+N+PE)			3 x 360/380/400/415 VAC (3Ph+N)		
Voltage Range (3Ph)	190-520 VAC @50% Load 305-478 VAC @100% Load			110-300 VAC @50% Load 176-276 VAC @100% Load		
Frequency Range	46-54 Hz or 56-64 Hz			40 - 70 Hz		
Power Factor THDi	≥ 0.99 @ 100% Load THDi < 4% @ Full Load					
Output						
Nominal Voltage	3 x 360/380/400/415 VAC (3Ph+N) (If set to 3 x 360VAC or 3 x 380VAC, output power will be de-rated by 10%)					
AC Voltage Regulation	±1% (Battery Mode)					
Frequency Range	(Synchronized Range) 46-54Hz or 56-64Hz					
Frequency Range	50/60 Hz ± 0.1% (Battery Mode)			50/60 Hz ± 1% (Battery Mode)		
Current Crest Ratio	3:1 (max)					
Harmonic Distortion	THD ≤ 2% (Linear Load), THD ≤ 5% (Non-linear Load)					
Transfer Time	AC Mode to Battery Mode: Zero Inverter to Bypass: Zero					
Output Wave Form	Pure Sine Wave					
Overload Capability	100-110% for 60 mins 111-125% for 10 mins 126%-150% for 1 min >150% shuts down immediately					
Machine Efficiency						
AC Mode ECO Mode	90.5% 96.0%	91.5% 96.0%		95.5% 98.5%		
Bypass						
Nominal Voltage	3 x 380 VAC (3Ph+N+PE)			3 x 360/380/400/415 VAC (3Ph+N)		
Voltage Range (3Ph)	190-520 VAC @50% Load 305-478 VAC @100% Load			305 VAC - 457 VAC		
Frequency Range	46-54 Hz or 56-64 Hz					
Overload Capability	>130% 1 minute (default) - Continuously Working Until Breaker Protection (Optional)					
Battery / Charger						
Battery Type	Sealed maintenance-free Lead-Acid batteries (External Battery Pack)					
Battery Pieces	20 (16-20 Adjustable)			32-40 (Adjustable)		
Charging Current	1-12A (Adjustable)					1-20A (Adjustable)
Charging Voltage	273 VDC ± 1%			±13.65 VDC x N (N=16-20)		
Weight, Dimensions, and Standards						
IP Protection Safety	IP20 IEC/EN 62040-1 Safety Standard					
Dimensions (mm)	592 x 250 x 826			815 x 300 x 1000		
Net Weight (kg)	31	36	39.5	55	66	74
Working Environment						
Temperature/Humidity	Temperature 0-40°C, Humidity 0-95% (No Condensation)					
Altitude	< 1,000m (Above 1,000m, output current will be de-rated by 1% for every 100m)					
Noise Level	< 60dB @ 1m	< 65dB @ 1m			< 70dB @ 1m	
Communication Interface						
RS232/USB SNMP	Smart RS232/USB on Windows®, Linux, MAC Power Management from SNMP and Web (optional)					

ویژگی‌ها

سیستم قطع اضطراری برق (EPO)
ضریب توان خروجی 0.9 (مدل‌های 10K-20K) و 1.0 (مدل‌های 30K-200K)
اصلاح ضریب توان فعال (ACTIVE PFC) در تمام فازها
نمایشگر لمسی 7 اینچ (TOUCH LCD) با اطلاعات کامل سیستم
سازگار با ژنراتور، حالت مبدل فرکانس 50Hz/60Hz

کاربری

مناسب برای مراکز داده بزرگ (DATA CENTERS)، کاربردهای صنعتی و خطوط تولید، محیط‌های پزشکی حساس، تجهیزات موتور دار مانند آسانسور، پمپ و فن

Model	GST-100K	GST-120K	GST-180K	GST-200K
Rated Capacity	100KVA / 100KW	120KVA / 120KW	180KVA / 180KW	200KVA / 200KW
No. of Phases	3-Phase In / 3-Phase Out			
Parallel Capability	Up to 4 Units			
Display				
7-inch Color Touch Screen	UPS Status, Load Level, Battery Level, Input/Output Voltage, Discharge Timer, Fault Conditions, etc.			
Input				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	110-300 VAC @ 50% Load 176-276 VAC @ 100% Load			
Nominal Frequency	50/60Hz (Auto Sensing)			
Frequency Range	40 - 70 Hz			
Power Factor	≥ 0.99 @ 100% Load			
Harmonic Distortion	THDi ≤ 4% @ Full Load			
Output				
Nominal Voltage Frequency	3 x 380/400/415 VAC (3Ph+N) 50/60 Hz			
Voltage Regulation	(Steady State) Balanced Load < ±1% Unbalanced Load < ±2%			
Frequency Range	(Synchronized Range) 46Hz - 54Hz or 56Hz - 64Hz			
Overload Capability	≤ 110% for 60 minutes 111% - 125% for 10 minutes 126%-150% for 1 minute ≥ 150% for 200ms			
Harmonic Distortion	THD ≤ 2% (Linear Load) THD ≤ 4% (Non-Linear Load)			
Machine Efficiency				
AC Mode ECO Mode	95.5% 98.5%			
Bypass				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Frequency Range	46Hz - 54Hz 56Hz - 64Hz			
Overload Capability	>130% 1 minute (default) - Continuously Working Until Breaker Protection (Optional)			
Battery / Charger				
Battery Type	Sealed maintenance-free Lead-Acid batteries (External Battery Pack)			
Nominal Voltage	±192V - ±240V (Selectable)			
Battery Pieces	32/34/36/38/40 PCS (Selectable)			
Floating Charge Voltage	2.28 V / Cell (2.25 - 2.33 V - Adjustable)			
Boost Charge Voltage	2.35 V / Cell			
Temperature Compensation	Automatic Adjustment of Charging Voltage Based on Battery Temperature			
Maximum Charging Current	24A (Adjustable)	36A (Adjustable)	54A (Adjustable)	
Weight, Dimensions, and Standards				
IP Protection Safety EMC	IP20 IEC/EN 62040-1 Safety Standard EMC: IEC/EN 62040-2 Category C3			
Dimensions (mm)	1,000 x 430 x 1,200		1,000 x 600 x 1,200	
Net Weight (kg)	200		265	
Working Environment				
Temperature/Humidity	Temperature 0-40°C, Humidity 0-95% (No Condensation)			
Altitude	< 1,000m (Above 1,000m, output current will be de-rated by 1% for every 100m)			
Communication Interface				
RS232/USB SNMP	Smart RS232/USB on Windows®, Linux, MAC Power Management from SNMP and Web (optional)			