

Alston Systems, GEO Online UPS is designed for 3 Phase In and Out application. State of the art technology design provides reliable performance for sensitive loads. High input power factor provides energy saving. The unique design has user-friendly LCD which provides the UPS real-time status in vivid graphic. This GEO Tower UPS commonly used for ISP sites, data centers and sensitive loads.



Features

- **DSP technology guarantees high reliability**
A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.
- **Output power factor 1 (Only for 10K-80K)**
For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advanced performance.
*Power Factor 0.9 only for 100K-200K models
- **Active power factor correction in all phases**
Power factor correction is active in all phases and it can improve the efficiency of input.
- **Dual Inputs**
GEO Online UPS is also available for optional dual inputs to support various inputs to have flexibility for system configuration.
- **50Hz/60Hz frequency converter mode**
Lock output frequency at 50Hz or 60Hz to suit power sensitive equipment's.
- **ECO mode operation for energy saving**
ECO mode improves the efficiency up to 98% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.
- **Emergency power off function (EPO)**
In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.
- **Adjustable charging current**
Users can adjust charging current via LCD setting based on applications.
- **Very powerful charger**
GEO Online UPS is built-in 12A charger for 10K-40KVA models and 24A for 60K/80KVA models. It's to support very long runtime applications when connecting to big capacity of external battery cabinet.

➤ **Optional parallel operation with common battery**

The system can be operated in parallel, increasing the capacity and performance. Besides, this parallel UPS system can share common battery packs which might greatly reduce the expense and reach the same performance.

Model	GEO Online UPS 10K-80K	GEO Online UPS 100K-200K
Max. parallel units	3	2

➤ **High overload capability**

Supporting 110% overload capacity for 60 min and up to 1 min overload condition at 150% load.

➤ **Adjustable battery design**

The number of connected batteries can be adjusted flexibly based on different power demands. This feature can allow UPS to keep running even when some battery packs are damaged.

➤ **Optional 4.3" touch LCD for GEO Online UPS**

10K-80K model

Applications

- IT Servers & Data-Centers
- Critical network devices
- Sensitive electronic
- Telecom
- Hospitals
- Banks
- Offices & Other business, etc.

Display Screens



10 – 80 KVA (4.3" LCD Panel)



100 – 200 KVA (10" LCD Panel)

Parameters table of GEO Series UPS

CAPACITY		10KVA / 10KW	15KVA / 15KW	20KVA / 20KW	30KVA / 30KW	40KV / 40KW	60KVA / 60KW	80KVA / 80KW	100KVA / 90KW	120KVA / 108KW	160KVA/ 144KW	200KVA/ 180KW	
PHASE		3-phase in / 3-phase out											
PARALLEL CAPABILITY		up to 3 units in parallel						up to 2 units in parallel					
INPUT													
Nominal Voltage		3 x 400 VAC (3Ph+N)											
Voltage Range		190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load						208-478 VAC (3-phase) @ 70% load 305-478 VAC (3-phase) @ 100% load					
Frequency Range		46~54 Hz or 56~64Hz						40~70Hz					
Power Factor		≥ 0.99 @ 100% Load											
OUTPUT													
Output Voltage		3 x 360*/380/400/415 VAC (3Ph+N)						3 x 380/400/415 VAC (3Ph+N)					
AC Voltage Regulation (Batt.		± 1%											
Frequency Range (Synchronized		46~54Hz or 56~64Hz											
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz											
Current Crest Ratio		3:1 (max.)											
Harmonic Distortion		≤ 2% THD (Linear Load) ; ≤ 5% THD (Non-linear Load)						≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)					
Transfer Time	AC Mode to Batt.	Zero											
	Inverter to Bypass	Zero											
Waveform (Batt. Mode)		Pure Sine wave											
Overload	AC Mode	100-110% for 60 min, 110-125% for 10 min, >150% immediately						105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms					
	Battery Mode	100-110% for 60 min, 110-125% for 10 min, >150% immediately						105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms					
EFFICIENCY													
AC Mode		95.5%						94.0%					
ECO Mode		98.5%						98.0%					
Battery Mode		94.5%						93.0%					
BATTERY													
Standard Model	Battery Type	12 V/9 Ah	12 V/9 Ah	12 V/9 Ah	12 V/7 Ah	12 V/9 Ah	N/A						
	Numbers	(10+10) pcs	(16+16) pcs	(16+16) pcs	(16+16) pcs x 2 strings								
	Typical Recharge Time	9 hours recover to 90% capacity											
	Charging Current	1A ~ 12A (Adjustable)											
	Charging Voltage	+/-136.5 VDC ± 10%	+/-218 VDC ± 10%										
Long-run Model	Battery Type	Depending on the applications											
	Numbers	20 pcs	32~40 pcs (Adjustable)										
	Charging Current (max.)	1A ~ 12A (Adjustable)						2A ~ 24 A (Adjustable)		24A	32A	40A	48A
	Charging Voltage	+/-136.5 VDC ± 10%	+/-13.65V x N (N=16~20)						+/- 13.7V x N (N = 16~20)				
INDICATORS													
LCD Display		UPS status, Load level, Battery level, Input/output voltage, Discharge timer, and Fault conditions								10" Touch Type color LCD			
PHYSICAL													
Standard Model	Dimension, DxWxH	630 x 250 x 826			815 x 300 x 1000			N/A					
	Net Weight (kgs)	124	139	225	250								
Long-run Model	Dimension, DxWxH	630 x 250 x 826			815 x 300 x 1000			790 x 360 x 1010		940 x 567 x 1015		1040 x 567 x 1452	
	Net Weight (kgs)	28	43	60	67	108	113	194	229	306	340		
ENVIRONMENT													
Operation Temperature & Humidity		0-40°C & < 95% and non-condensing											
Noise Level		<55dB	<58dB	<65dB	<70dB	<75dB	<70dB	<73dB					
MANAGEMENT													
Smart RS-232 / USB		Supports Windows ² 2000/2003/XP/Vista/2008, Windows ² 7/8/10, Linux and MAC											
Optional SNMP		Power management from SNMP manager and web browser											

*If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.

Ordering Information

Model	Part No	Description
Standard Model	909310103	Alston Systems, GEO Online UPS, Internal battery, 10KVA/10KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz.
	909310153	Alston Systems, GEO Online UPS, Internal battery, 15KVA/15KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz.
	909310203	Alston Systems, GEO Online UPS, Internal battery, 20KVA/20KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz.
	909310303	Alston Systems, GEO Online UPS, Internal battery, 30KVA/30KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz.
	909310403	Alston Systems, GEO Online UPS, Internal battery, 40KVA/40KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz.
Long-run Model	909320103	Alston Systems, GEO Online UPS, External battery, 10KVA/10KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 12A Charger.
	909320153	Alston Systems, GEO Online UPS, External battery, 15KVA/15KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 12A Charger.
	909320203	Alston Systems, GEO Online UPS, External battery, 20KVA/20KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 12A Charger.
	909320303	Alston Systems, GEO Online UPS, External battery, 30KVA/30KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 12A Charger.
	909320403	Alston Systems, GEO Online UPS, External battery, 40KVA/40KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 12A Charger.
	909320603	Alston Systems, GEO Online UPS, External battery, 60KVA/60KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 24A Charger.
	909320803	Alston Systems, GEO Online UPS, External battery, 80KVA/80KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 24A Charger.
	909321003	Alston Systems, GEO Online UPS, External battery, 100KVA/90KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 24A Charger.
	909321203	Alston Systems, GEO Online UPS, External battery, 120KVA/108KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 32A Charger.
	909321603	Alston Systems, GEO Online UPS, External battery, 160KVA/144KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 40A Charger.
909322003	Alston Systems, GEO Online UPS, External battery, 200KVA/180KW , 3P/3P (3X400VAC – 3Ph+N), 50/60 Hz, 48A Charger.	

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**Product specifications and availability are subject to change without notice.*