



### Product Description :

Alston Systems : Smart Series is Line Interactive UPS. The power rating covers from 600 VA, 800 VA, 1K/2KVA which delivers the best of combination of reliability, functionality, and flexibility at a competitive price. Smart Series is equipped with AVR to stabilize input voltage, smart charger to protect battery for longer lifecycle. The smart design ensures reliable and trouble-free operation for the sensitive loads such as computers.

### Features

- Microprocessor control for best reliability and performance
- Easy LED Indicators
- Equipped with Boost and Buck AVR to stabilize input voltage
- Compact size for easy carry
- Provides Lightning, Surge, Overload and Shoart Circuit Protection
- Built-in smart battery charger to shorten charging hours
- Auto restart while AC recovery
- Cold Start Function (DC Power On)
- Off-mode charging
- Operating temperature 0~ 40°C

### Ordering Information

Part No	Description
90011600U	Alston Systems, Smart Series Line Interacitve UPS 600 VA
90011800U	Alston Systems, Smart Series Line Interacitve UPS 800 VA
90011001U	Alston Systems, Smart Series Line Interacitve UPS 1000 VA
90011002U	Alston Systems, Smart Series Line Interacitve UPS 2000 VA

### Parameters table of Smart Series UPS

Capacity	600VA/360W	800VA/480W	1000VA/600W	2000VA/1200W
Main Input				
Voltage/Frequency	110/120VAC or 220/230/240VAC 60/50 (Auto sensing)			
Voltage Range	81-145VAC or 162-290VAC			
Main Output				
Voltage Regulation	110/120VAC or 220/230/240VAC +/- 10%			
Frequency / Waveform / Transfer Time	50Hz or 60Hz +/-1Hz Simulated Sine Wave Typical 2-6ms			
Output Outlets: Universal	2	2	4	4
Battery				
Battery Type	12V/7Ah*1pc	12V/9Ah*1pc	12V/7Ah*2pcs	12V/7Ah*2pcs
Recharge Time	4-6Hrs to 90% after complete discharge			
Battery Protection	Over discharge protection & Short circuit protection			
Smart Battery Charger	Yes			
Battery Backup Time (Load with 1pc)	10mins	20mins	35mins	40mins
Display	UPS status indicator for AC normal, battery backup and UPS cut-off			
Alarm				
Battery Mode	Sounding every 10 seconds			
Low Battery at Battery Mode	Sounding every second			
Overload	Sounding every 0.5 second			
Fault	Continuously sounding			
Environment				
Humidity	0-90% relative humidity @ 0-40°C (Non-condensing)			
Noise Level	Less than 40dB			
Physical Dimension (DxWxH) mm	279 x 101 x 142	279 x 101 x 142	320 x 130 x 182	320 x 130 x 182
Net Weight (kgs)	4.2	4.9	8.2	11



**6KVA-10KVA**

**1KVA-3KVA**

**Product Description :**

Alston Xtreme models are in 19" rack mount construction suitable to provide uninterrupted power for rack mount data centre equipments. User friendly LCD design provides UPS status to customer. The extreme UPS design ensures reliable and trouble-free operation for the critical load ranging from 1KVA to 10 KVA.

**Features**

- 19 inch rack mounted design
- Online double conversion technology
- Microprocessor control for best reliability and performance
- 110-300V wide input range
- Zero transfer time
- Converter mode available
- ECO mode for energy saving (only for 1KVA-3KVA)
- Generator compatible
- Input power factor correction
- Lightning and surge protection
- Complete protection function
- Smart RS-232/USB ports with monitoring software and optional SNMP card

**Ordering Information**

	Part No	Description
Internal Model	904110013	AS Xtreme RM Series Single Phase 1KVA with Internal Battery-Black
	904110023	AS Xtreme RM Series Single Phase 2KVA with Internal Battery Bank-Black
	904110033	AS Xtreme RM Series Single Phase 3KVA with Internal Battery Bank-Black
External Model	904120013	AS Xtreme RM Series Single Phase 1KVA External Battery-Black
	904120023	AS Xtreme RM Series Single Phase 2KVA External Battery-Black
	904120033	AS Xtreme RM Series Single Phase 3KVA External Battery-Black
	904120063	AS Xtreme RM Series Single Phase 6KVA External Battery-Black
	904120103	AS Xtreme RM Series Single Phase 10KVA External Battery-Black

**Parameters table of Supreme Series UPS**

Capacity	1000VA/800W	2000 VA / 1600 W	3000 VA / 2400 W	6000VA / 4800W	10000 VA / 8000 W				
Main Input									
Voltage/Frequency	200/208/220/230/240VAC 40Hz ~70 Hz			208/220/230/240VAC 56~64 Hz					
Voltage Range	Single Phase - 110-300 VAC (Based on load at 50%)								
Main Output									
Voltage Regulation	200/208/220/230/240VAC ± 10%			208/220/230/240VAC ± 10%					
Frequency / Transfer Time	47~ 53 Hz or 57 ~ 63 Hz Typical Zero			46 ~ 54 Hz or 56 ~ 64 Hz Typical Zero					
Waveform / Distortion	Pure Sine Wave, Linear load < 3% / Nonlinear load < 6%			Pure Sine Wave, Linear load < 3% / Nonlinear load < 5%					
Output Outlets: Universal	2	2	2+Terminal	Output Terminal					
Battery									
Internal Model	Battery Type	12V/9Ah*2pcs	12V/9Ah*4pcs	12V/9Ah*6pcs	12V/9Ah*16pcs				
	Charging Voltage	27.4 VDC ±1%	54.7VDC ±1%	82.1VDC ±1%	218.4 VDC± 1%				
	Charging Current	1A			1A/2A				
External Model	Numbers	2	3	4	6	8	6	8	16
	Charging Voltage	27.4 VDC ±1%	41.0 VDC ±1%	54.7 VDC ±1%	82.1 VDC ±1%	109.4 VDC ±1%	82.1 VDC ±1%	109.4 VDC ±1%	218.4 VDC± 1%
	Charging Current	1A/2A/4A/6A (Adjustable)							1A/2A/4A/6A (Adjustable)
Recharge Time	4 Hrs to 90% after complete discharge				9 Hrs to 90% after complete discharge				
Other Features									
Overload Protection	105% ~ 110%: 10 mins, 110% ~ 130%: 60 secs			100% ~ 110%: 30 mins, 110% ~ 130%: 5 mins					
RS-232/USB com. port	Supports Windows family, Linux, Unix and MAC								
Environment									
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)			0-95 % RH @ 0-40°C (Non-condensing)					
Noise Level	Less than 50dB			Less than 55dB		Less than 58dB			
Internal Model	Physical Dimension (DxWxH) mm	280 x 438 x 88	380 x 438 x 88	600 x 438 x 88	UPS: 500 x 438 x 88 Battery: 668x438x88	UPS: 580 x 438 x 88 Battery: 668x438x88			
	Net Weight (kgs)	12	19	29.3	UPS: 13.5, Battery: 60	UPS: 16.5, Battery: 60			
External Model	Physical Dimension (DxWxH) mm	280 x 438 x 88	380 x 438 x 88	380 x 438 x 88	500 x 438 x 88	580 x 438 x 88			
	Net Weight (kgs)	9	12	14.2	13.5	16.5			



**Product Description :**

Alston Supreme Online type UPS is designed for Single phase IN and OUT application. Supreme tower type is designed to adapt wide input voltage range which is more immune design to input voltage fluctuations. The unique design has user friendly LED indicator with LCD screen which provides the complete UPS status.

**Features**

- 115~300V Wide Input voltage range
- Microprocessor control for best reliability and performance
- Comprehensive LED and LCD display for complete UPS information
- Converter mode available
- ECO mode for energy saving (only for 1KVA-3KVA)
- Generator compatible
- Input power factor correction
- Lightning and surge protection
- Complete protection function
- Smart RS-232/USB ports with monitoring software and optional SNMP card

**Ordering Information**

	Part No	Description
Internal Model	901110013	Alston Systems, Supreme Tower Type Single Phase Internal Battery 1KVA UPS-Black
	901110023	Alston Systems, Supreme Tower Type Single Phase Internal Battery 2KVA UPS-Black
	901110033	Alston Systems, Supreme Tower Type Single Phase Internal Battery 3KVA UPS-Black
	901110063	Alston Systems, Supreme Tower Type Single Phase Internal Battery 6KVA UPS-Black
	901110103	Alston Systems, Supreme Tower Type Single Phase Internal Battery 10KVA UPS-Black
External Model	901120013	Alston Systems, Supreme Tower Type Single Phase External Battery 1KVA UPS-Black
	901120023	Alston Systems, Supreme Tower Type Single Phase External Battery 2KVA UPS-Black
	901120033	Alston Systems, Supreme Tower Type Single Phase External Battery 3KVA UPS-Black
	901120063	Alston Systems, Supreme Tower Type Single Phase External Battery 6KVA UPS-Black
	901120103	Alston Systems, Supreme Tower Type Single Phase External Battery 10KVA UPS-Black

**Parameters table of Supreme Series UPS**

Capacity		1000VA/800W		2000 VA / 1600 W		3000 VA / 2400 W		6000VA / 4800W		10000 VA / 8000 W		
Main Input												
Voltage/Frequency		200/208/220/230/240VAC 40Hz ~ 70 Hz				208/220/230/240VAC 56~64 Hz						
Voltage Range		Single Phase - 110-300 VAC (Based on load at 50%)										
Main Output												
Voltage Regulation		200/208/220/230/240VAC +/- 10%				208/220/230/240VAC +/- 10%						
Frequency / Transfer Time		47~ 53 Hz or 57 ~ 63 Hz Typical Zero				46~54 Hz or 56~64 Hz Typical Zero						
Waveform / Distortion		Pure Sine Wave, Linear load < 3% / Nonlinear load < 6%						Pure Sine Wave, Linear load < 3% / Nonlinear load < 5%				
Output Outlets: Universal		3	2	3	2	4+Terminal	2+Terminal	Output Terminal				
Battery												
Internal Model	Battery Type	12V/9Ah*2pc		12V/9Ah*4pc		12V/9Ah*6pc		12V/9Ah*16pcs		12V/9Ah*16pcs / 20PCS		
	Charging Voltage	27.4 VDC ±1%		54.7VDC ±1%		82.1VDC ±1%		218.4 VDC± 1%				
	Charging Current	1A										1A/2A/4A/6A (Adjustable)
External Model	Numbers	2	3	4	6	8	6	8	16		20	
	Charging Voltage	27.4 VDC ±1%	41.0VDC ±1%	54.7 VDC ±1%	82.1 VDC ±1%	109.4 VDC ±1%	82.1 VDC ±1%	109.4 VDC ±1%	218.4 VDC± 1%		273 VDC± 1%	
	Charging Current	1A-6A (Adjustable)						1A/2A/4A/6A (Adjustable)				
Recharge Time		4 Hrs to 90% after complete discharge						9 Hrs to 90% after complete discharge				
Other Features												
Overload Protection		105%~110%: 10 mins, 110%~130%: 60 secs						100%~110%: 30 mins, 110%~130%: 5 mins				
RS-232/USB com. port		Supprts Windows family, Linux, Unix and MAC										
Environment												
Humidity		20-90 % RH @ 0- 40°C (Non-condensing)										
Noise Level		Less than 50dB						Less than 55dB		Less than 58dB		
Internal Model	Physical Dimension (DxWxH) mm	282 x 145 x 220		397 x 145 x 220		421 x 190 x 318		369 x 190 x 688		442 x 190 x 688		
	Net Weight (kgs)	9.8		17		27.6		61		66 75		
External Model	Physical Dimension (DxWxH) mm	282 x 145 x 220		397 x 145 x 220		397 x 145 x 220		369 x 190 x 318		442 x 190 x 318		
	Net Weight (kgs)	4.1		6.8		7.4		8.2		16 18		



### Product Description :

Alston Systems Ultra Tower Type UPS is designed for 3 Phase In and Single Phase Out. 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 screen which provides the UPS status and print access for system service if any. Ultra Tower UPS commonly used for ISP sites, Data centres and for sensitive loads.

### Features

- Three phase in/Single phase out system, compatible with utility of 380/400/415V, 50/60Hz
- Online double conversion, offering load with best power quality
- Support all kinds of load, high overload capability
- DSP technology guarantees high performance
- Wide input voltage window
- Active input power factor correction in all phases
- Optional parallel redundancy capability up to 3 units
- Intelligent battery management, extending battery Lifetime
- Built-in phase auto adapt function simplifies wire installation
- Programmable output sockets for extended runtime
- Multiple operation modes: converter mode and ECO mode
- Adjustable battery number for flexibility

### Ordering Information

	Part No	Description
Internal Model	90131901073S	AS Ultra Tower Type 3P/1P Interbal Battery 10KVA UPS
	90131901573S	AS Ultra Tower Type 3P/1P Interbal Battery 15KVA UPS
	90131902073S	AS Ultra Tower Type 3P/1P Interbal Battery 20KVA UPS
	90131903073S	AS Ultra Tower Type 3P/1P Interbal Battery 30KVA UPS
External Model	90132901073S	AS Ultra Tower Type 3P/1P External Battery 10KVA UPS
	90132901573S	AS Ultra Tower Type 3P/1P External Battery 15KVA UPS
	90132902073S	AS Ultra Tower Type 3P/1P External Battery 20KVA UPS
	90132903073S	AS Ultra Tower Type 3P/1P External Battery 30KVA UPS

### Parameters table of Smart Series UPS

Capacity	10000VA/8000W	15000VA /12000W	20000VA /16000W	30000VA /24000W	
Main Input					
Nominal Voltage	3 x 400 VAC (3Ph+N)				
Voltage/Frequency	190-520 VAC (3-phase) at 50% load ; 305-478 VAC (3-phase) at 100% load / 46~54 Hz or 56~64 Hz				
Main Output					
Voltage Regulation	208/220/230/240VAC +/- 1%				
Frequency / Transfer Time	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz (Batt. Mode)      Zero				
Waveform / Distortion	Pure Sinewave, ≤ 2 % THD (Linear Load) / ≤ 5 % THD (Non-linear Load)				
<b>Battery</b>					
Internal Model	Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	
	Numbers	20 pcs (18 - 20 pcs adjustable)*	20 pcs (18 - 20 pcs adjustable)* x 2 strings	20pcs(18-20pcs adjustable)* x3 strings	
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)			
	Charging Current	1A	2A	2A	4A
External Model	Numbers	18 - 20 pcs			
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)			
	Charging Current	4A	8A	8A	12A
Recharge Time	9 hours recover to 90% capacity				
<b>Other Features</b>					
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
RS-232/USB com. port	Supports Windows family, Linux, Unix, and MAC				
<b>Environment</b>					
Humidity	0-95 % RH @ 0- 40°C (Non-condensing)				
Noise Level	Less than 58dB @ 1 Meter	Less than 60dB @ 1 Meter		Less than 65dB @ 1 Meter	
Internal Model	Physical Dimension (DxWxH) mm	592 x 250 x 576	815 x 250 x 826	815 x 250 x 826	815 x 300 x 1000
	Net Weight (kgs)	83	164	164	234
External Model	Physical Dimension (DxWxH) mm	592 x 250 x 576	592 x 250 x 576	592 x 250 x 576	815 x 250 x 826
	Net Weight (kgs)	28	40	40	64



### Product Description :

Alston Systems Superne Ultra Tower Type 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 screen which provides the UPS status and front access for system service if any. Ultra Tower UPS commonly used for ISP sites, Data centres and for sensitive loads.

### Features

- Three phase in and out system, compatible with utility of 380/400/415V,50/60Hz
- Online double conversion, offering load with best power quality
- Support all kinds of load, high overload capability
- DSP technology guarantees high performance
- Accepts dual-main inputs
- Active input power factor correction in all phases
- Optional parallel redundancy capability up to 3 units
- Intelligent battery management, extending battery Lifetime
- Built-in phase auto adapt function simplifies wire installation
- Emergency power off function
- Multiple operation modes: converter mode and ECO mode
- Adjustable battery number for flexibility

### Ordering Information

	Part No	Description
Internal Model	903210103	AS Ultra Tower Type 3P/3P Interbal Battery 10KVA UPS
	903210153	AS Ultra Tower Type 3P/3P Interbal Battery 15KVA UPS
	903210203	AS Ultra Tower Type 3P/3P Interbal Battery 20KVA UPS
	903210303	AS Ultra Tower Type 3P/3P Interbal Battery 30KVA UPS
External Model	903220103	AS Ultra Tower Type 3P/3P External Battery 10KVA UPS
	903220153	AS Ultra Tower Type 3P/3P External Battery 15KVA UPS
	903220203	AS Ultra Tower Type 3P/3P External Battery 20KVA UPS
	903220303	AS Ultra Tower Type 3P/3P External Battery 30KVA UPS

### Parameters table of Smart Series UPS

Capacity		10000VA/8000W	15000VA /12000W	20000VA /16000W	30000VA /24000W
Main Input					
Nominal Voltage		3 x 400 VAC (3Ph+N)			
Voltage/Frequency		190-520 VAC (3-phase) at 50% load ; 305-478 VAC (3-phase) at 100% load			
Main Output					
Voltage Regulation		3 x 400 VAC (3Ph+N) +/- 1%			
Frequency / Transfer Time		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz (Batt. Mode)		Zero	
Waveform / Distortion		Pure Sinewave, ≤ 2 % THD (Linear Load) / ≤ 5 % THD (Non-linear Load)			
Battery					
Internal Model	Battery Type	12 V / 9 Ah		12 V / 9 Ah	
	Numbers	20 pcs (18 - 20 pcs adjustable)*		20 pcs (18 - 20 pcs adjustable)* x 2 strings	
	Charging Voltage	273 VDC ± 1%			
	Charging Current	1A	2A	2A	4A
External Model	Numbers	18-20 pcs			
	Charging Voltage	273 VDC ± 1%			
	Charging Current	4A	4A	4A	12A
Recharge Time		9 hours recover to 90% capacity			
Other Features					
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
RS-232/USB com. port		Supports Windows family, Linux, Unix, and MAC			
Environment					
Humidity		0-95 % RH @ 0- 40°C (Non-condensing)			
Noise Level		Less than 58dB @ 1 Meter		Less than 60dB @ 1 Meter	
Internal Model	Physical Dimension (DxWxH) mm	815 x 250 x 826	815 x 250 x 826	815 x 250 x 826	815 x 300 x 1000
	Net Weight (kgs)	109	164	164	233.5
External Model	Physical Dimension (DxWxH) mm	592 x 250 x 826	592 x 250 x 576	592 x 250 x 576	815 x 250 x 826
	Net Weight (kgs)	38	40	40	64



### Product Description :

Alston Systems Ultra PF0.9 Tower Online UPS is designed for 3 Phase In and OUT application. State of the art technology design allows to easily adapt to all kinds of diverse and complicated loads, such as the non-linear systems (IT systems), strongly inductive or capacitive loads, discharge lamps, and induction motors. To facilitate expansion easily, this unit can be set up in parallel-redundant systems with up 4 units.

### Features

- Online double conversion technology with DSP control
- Output power factor 0.9
- Very low input current distortion (THDi < 1%)
- Input power factor 0.99 at 10% load
- Output efficiency up to 95%
- Space-saving compact design
- Front access makes maintenance and replacement easily
- Highly flexibility in single phase/three-phase set-ups
- Control designed to withstand all kinds of loads
- Parallel redundant operation with up to 4 units

### Ordering Information

Part No	Description
903220103	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 10 KVA UPS - Black
903220153	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 15 KVA UPS - Black
903220203	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 20 KVA UPS - Black
903220303	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 30 KVA UPS - Black
903220403	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 40 KVA UPS - Black
903220603	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 60 KVA UPS - Black
903220803	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 80 KVA UPS - Black
903221003	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 100 KVA UPS - Black
903221203	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 120 KVA UPS - Black
903221603	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 160 KVA UPS - Black
903222003	Alston System Ultra PF0.9 Tower Type 3 Phase External Battery 200 KVA UPS - Black

### Parameters table of Ultra PF0.9 Series UPS

Capacity	10KVA/ 9KW	15KVA/ 13.5KW	20KVA/ 18KW	30KVA/ 27KW	40KVA/ 36KW	60KVA/ 54KW	80KVA/ 72KW	100KVA/ 90KW	120KVA/ 108KW	160KVA/ 144KW	200KVA/ 180KW	
<b>Main Input</b>												
Nominal Voltage	3 x 400V (3Ph + N)											
Frequency	50 / 60 Hz ±5 %											
Total Harmonic Distortion (THDi)	< 1.5% @ 100% load < 2.5% @ 50% load < 6.0% @ 10% load			< 1.0% @ 100% load ; < 2.0% @ 50% load < 5.0% @ 10% load				< 1.5% @ 100% load ; < 2.0% @ 50% load < 6.0% @ 10% load				
Current Limitation	High overload: PFC Limit (discharging batteries)											
<b>Inverter</b>												
Nominal Voltage	3 x 400V (3Ph + N)											
Precision	Stationary: ±1% ; Transitory: ±2% (load variations 100-0-100%)											
Frequency	50/60 Hz synchronised ±4 % With mains absent ±0.05%											
Waveform	Pure Sinewave											
Total Harmonic Distortion (THDv)	< 0.5% (Linear Load) ; < 1.5% (Non-linear Load)											
Admissible Crest Factor	3.4 : 1			3.2 : 1			2.8 : 1		3.2 : 1		3.0 : 1	
<b>Maintenance Bypass</b>												
Type/Voltage	Without interruption ; 3 x 400V (3Ph + N)											
Overall Efficiency (Line mode)	90.0%	90.5%	91.0%	92.0%	92.5%	93.0%	94.0%	93.0%	93.3%	92.8%	92.6%	
<b>Battery</b>												
Built-in Battery Type (2x31)	12V 4.5Ah	12V 4.5Ah	12V 7Ah	12V 9Ah	12V 12Ah	-						
Back-up Time (minutes)	5	3	5	3	3	-						
Max. Charging Current	23.5 A				47 A		70.5 A		188 A			
<b>Physical</b>												
Dimension, D x W x H(mm)	770 x 450 x 1100						805 x 590 x 1320			850 x 900 x 1900		
Net Weight (without batteries)(Kg)	78	86	94	110	122	162	231	255	550			
Net Weight (w/built-in batteries) (Kg)	178	186	249	357	-							



### Features: Modular online UPS 90K-210KVA characteristics

- Modular design, hot swappable
- Strong load adaptability for linear and nonlinear load
- Intelligent module and system protection design
- DSP control provides high performance
- Unity output power factor
- Flexible battery configuration
- Inbuilt power distribution for input and output connection
- Large graphic LCD with comprehensive information
- High overload capability
- N+1 or N+X parallel redundancy

### Product Description :

Alston Systems Fusion UPS is a modular design with double conversion online feature designed for sensitive loads. This design meets the power rating requirement from 10KVA to 200KVA. Alton's modular products are hot swappable and delivers high reliability for sensitive loads. For Fusion UPS we use latest three layer IGBT technology together with DSP control function. Fusion UPS widely used for data centre, critical loads and for computer systems.

### Parameters table of Fusion Series UPS

Cabinet Size	30U				42U		
	Cabinet Capacity*	90KW	120KW or 80KW	180KW or 120KW	120KW	210KW	
One Power Module Capacity	30KVA/30KW	20KVA/20KW or 30KVA/30KW		30KVA/30KW	30KVA/30KW		
Max. Power Module No.	3	4	6	4	7+1		
<b>Main Input</b>							
Nominal Voltage	3 x 400 VAC (3Ph+N)						
Voltage Range	305 ~ 477 VAC at 100% load; 208 ~ 304VAC at <70% load						
Nominal Frequency	50/60Hz (Auto Sensing)						
Harmonic Distortion (THDi)	< 3% @ 100% load						
<b>Main Output</b>							
Nominal Voltage	3 x 400 VAC (3Ph+N)						
Voltage Regulation	<b>Steady state:</b> $\leq \pm 1\%$ Typical (balanced load) ; $\leq \pm 2\%$ Typical (unbalanced load) ; <b>Transient:</b> $\leq \pm 5\%$ Typical						
Nominal Frequency	50/60Hz						
Harmonic Distortion	$\leq 1.5\%$ THD (Linear Load) ; $\leq 4\%$ THD (Non-linear Load)						
<b>Battery / Charger</b>							
Battery Type	Built-in Battery	External Battery			Built-in Battery	External Battery	
Nominal Voltage	+/- 216V (12V x 36 pcs)						
Max. Battery Set No.**	3	-	-	5	-		
<b>Other Features</b>							
RS-232/USB com. port	Supports Windows family, Linux, Unix, and MAC						
Optional SNMP	Power management from SNMP manager and web browser						
<b>Environment</b>							
Relative Humidity	0 ~ 95% non-condensing						
Altitude	<1000m for Nominal power						
Physical Dimension(DxWxH) mm	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 2010		
Net Weight (kgs)	675.5	333	335	450.5	453.5	932	549
<b>Standards</b>							
Safety	IEC/EN 60950-1; IEC/EN 62040-1						
EMC	IEC/EN 62040-2 Category C3						

\*When temperature is above 30°C, the output power factor will be de-rated, 0.9 at 31°C~35°C and 0.8 at 36°C~40°C.

\*\* One battery module contains 10 pcs of 12V/7Ah or 12/9Ah sealed lead acid batteries in one tray. One complete battery set contains 4 battery modules.

\*\*\*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.

Part No.	Description	Dimension DxWxH(mm)	Weight (kg)
Power module 30HV	Alston Systems Fusion Power module 30KVA/30KW	650 x 440 x 132(3U)	34.5
Battery Module	10 pcs of 12V 9Ah batteries	735 x 107 x 155	26

### Ordering Information

Part No	Description	Part No	Description
Fusion Excel System Cabinet		Fusion Power module	
905190013	Alston Systems Fusion Excel Modular 30U Cabinet, No power module, with STS 90K module and Input / Output control module, No battery tray System cabinet	905010003	Alston Systems Fusion Power module 30KVA/30KW
Fusion Ultra System Cabinet		Fusion Modular UPS Accessories	
905190023	Alston Systems Fusion Excel Modular 30U Cabinet, No power module, with STS 100K module and Input / Output control module, No battery tray System cabinet	ASM-C30U	Alston Systems, Battery Bank 30U external battery cabinet( includes 40 empty battery tray (each bank tray can load 10 pcs 12V/9Ah battery ), Breaker with auto current sensor, and all connection wires
905190023	Alston Systems Fusion Excel Modular 30U Cabinet, No power module, with STS 180K module and Input / Output control module, No battery tray System cabinet	ASM-C42U	Alston Systems, Battery Bank 42U external battery cabinet (Included 40 empty battery tray (each bank tray can load 10 pcs 12V/9Ah battery ), Breaker with auto current sensor, and all connection wires
905690063	Alston Systems Fusion Ultra Modular 42U Cabinet, No power module, with STS 120K module and Input/ Output control module, No battery tray System cabinet	905090113	Alston Systems SNMP Card
905790073	Alston Systems Fusion Ultra Modular 42U Cabinet, No power module, with STS 210K module and Input/ Output control module, No battery tray System cabinet	905090123	Alston Systems Battery compensation kit
		905090133	Alston Systems Parallel kit

Part No	Fusion Excel Pack with built in modules – 30 U
905100603	<b>Alston Systems, Fusion Excel</b> - 60KVA / 60KW - 1 x 30U cabinet, with 30KVA/30KW power module x 2, with STS 90K module and Input/output control module, Build in 12 empty battery tray (each bank tray can accommodate 10 pcs 12V/9Ah battery ), Power redundancy availability: Yes, 2+1 for option, Included RS-232, USB port, and all connection wires
905200903	<b>Alston Systems, Fusion Excel</b> - 90KVA / 90KW - 1 x 30U cabinet, with 30KVA/30KW power module x 3, with STS 180K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 2+1 for option, Included RS-232, USB port, and all connection wires
905201203	<b>Alston Systems, Fusion Excel</b> - 120KVA / 120KW - 1 x 30U cabinet, with 30KVA/30KW power module x 4, with STS 180K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 2+1 for option, Included RS-232, USB port, and all connection wires
905201503	<b>Alston Systems, Fusion Excel</b> - 150KVA / 150KW - 1 x 30U cabinet, with 30KVA/30KW power module x 5, with STS 180K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 2+1 for option, Included RS-232, USB port, and all connection wires
905201803	<b>Alston Systems, Fusion Excel</b> - 180KVA / 180KW - 1 x 30U cabinet, with 30KVA/30KW power module x 6, with STS 180K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 2+1 for option, Included RS-232, USB port, and all connection wires

Part No	Fusion Ultra Pack with built in modules – 42 U
905600903	<b>Alston Systems, Fusion Ultra</b> - 90KVA / 90KW - 1 x 42U cabinet, with 30KVA/30KW power module x 3, with STS 120K module and Input/output control module, Build in 20 empty battery tray (each bank tray can accommodate 10 pcs 12V/9Ah battery ), Power redundancy availability: Yes, 3+1 for option, Included RS-232, USB port, and all connection wires
905701203	<b>Alston Systems, Fusion Ultra</b> - 120KVA / 120KW - 1 x 42U cabinet, with 30KVA/30KW power module x 4, with STS 210K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 3+1 for option, Included RS-232, USB port, and all connection wires
905701503	<b>Alston Systems, Fusion Ultra</b> - 150KVA / 150KW - 1 x 42U cabinet, with 30KVA/30KW power module x 5, with STS 210K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 3+1 for option, Included RS-232, USB port, and all connection wires
905701803	<b>Alston Systems, Fusion Ultra</b> - 180KVA / 180KW - 1 x 42U cabinet, with 30KVA/30KW power module x 6, with STS 210K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 3+1 for option, Included RS-232, USB port, and all connection wires
905702103	<b>Alston Systems, Fusion Ultra</b> - 210KVA / 210KW - 1 x 42U cabinet, with 30KVA/30KW power module x 7, with STS 210K module and Input/output control module, No Internal Battery, Power redundancy availability: Yes, 3+1 for option, Included RS-232, USB port, and all connection wires





### Features

- Microprocessor control guarantees high reliability
- Selectable input voltage range
- Time delay function eliminates transients that can effect connected equipment
- Provides stable output voltage
- Provides under-voltage, over-voltage, over-heat and over current protection
- Provide surge and spike suppression

### Product Description :

Alston Systems : Compact Series is automatic voltage regulator. The power rating covers from 500VA~10KVA which delivers the best power regulation for precious equipment. It allows quick response for detecting and regulating voltage. It also provides time delay function to eliminate transients that can effect connected equipment.

### Ordering Information

Part No	Description
850050041	Alston Systems, Compact Series AVR 500 VA
85100081	Alston Systems, Compact Series AVR 1000 VA
850150121	Alston Systems, Compact Series AVR 1500 VA
850200161	Alston Systems, Compact Series AVR 2000 VA
850300241	Alston Systems, Compact Series AVR 3000 VA
850500401	Alston Systems, Compact Series AVR 5000 VA
850800641	Alston Systems, Compact Series AVR 8000 VA
851000801	Alston Systems, Compact Series AVR 10000 VA

### Parameters table of Smart Series UPS

Capacity	500VA/400W	1000VA/800W	1500VA/1200W	2000VA/1500W	3000VA/2400W
<b>Main Input</b>					
Voltage/Frequency	220 VAC 60/50 (Auto sensing)				
Voltage Range	110 VAC - 270 VAC or 140 VAC - 260 VAC (Selectable)				
<b>Main Output</b>					
Voltage Regulation	220 VAC +/- 10%				
<b>Other Features</b>					
Normal mode/ AVR Mode Efficiency	95% 92%				
Delay Time	3 minutes or 10 Seconds				
Full Protection	Over-voltage, under-Voltage, over-heat and over current Protection				
<b>Enviornment</b>					
Operating Temperature	0-40°C				
Humidity	0-90% relative humidity (non-condensing)				
Physical Dimension (DxWxH) mm	196.8 x 110 x 123.5		233.6 x 134 x 181		297.1 x 150 x 199
Net Weight (kgs)	2.4	3.91	5.4	6.55	8.56
Capacity	5000VA/4000W	8000VA/6400W	10000VA/8000W		
<b>Main Input</b>					
Voltage/Frequency	220 VAC 60/50 (Auto sensing)				
Voltage Range	140 - 260 VAC Option 1: 100 - 260 VAC ; Option 2: 80 - 260 VAC				
<b>Main Output</b>					
Voltage Regulation	220 VAC +/- 10%				
<b>Other Features</b>					
Normal mode/ AVR Mode Efficiency	98% 92-95%				
Delay Time	3 minutes or 10 Seconds				
Full Protection	Over-voltage, under-Voltage, over-heat and over current Protection				
<b>Enviornment</b>					
Operating Temperature	0-40°C				
Humidity	0-90% relative humidity (non-condensing)				
Physical Dimension (DxWxH) mm	450 x 210 x 237				
Net Weight (kgs)	10.96	14.31	15.95		