

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. Alston's modular products are hot swappable and deliver high reliability for sensitive loads. For Fusion UPS we use the latest three layer IGBT technology together with DSP control function. Fusion UPS are widely used for data center, critical loads and for computer systems.



Features

- 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

*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.

Parameters table of Fusion Series UPS

Cabinet Size	30U			42U	
	Cabinet Capacity*	90KW	120KW or 80KW	180KW or 120KW	120KW
One Power Module Capacity	30KVA/30KW	20KVA/20KW or 30KVA/30KW	30KVA/30KW	30KVA/30KW	210KW
Max. Power Module No.	3	4	6	4	7+1
Main Input					
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					
Main Output					
Nominal Voltage	3 x 400 VAC (3Ph+N)				
Voltage Regulation	Steady state: ≤ ± 1% Typical (balanced load) ; ≤ ± 2% Typical (unbalanced load) ; Transient: ≤ ± 5% Typical				
Nominal Frequency	50/60Hz				
Harmonic Distortion	≤ 1.5% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)				
Battery / Charger					
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	-
Other Features					
RS-232/USB com. port	Supports Windows family, Linux, Unix, and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
Environment					
Relative Humidity	0 ~ 95% non-condensing				
Altitude	<1000m for Nominal power				
Physical Dimension(DxWxH) mm	1100x600x1475	1100 x 600 x 1475	1100x600x 1475	1100x600x2010	1100x600x2010
Net Weight (kgs)	675.5	333 335	450.5 453.5	932	549
Standards					
Safety	IEC/EN 60950-1; IEC/EN 62040-1				
EMC	IEC/EN 62040-2 Category C3				

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
Fusion Excel System Cabinet	
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
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
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
Fusion Ultra System Cabinet	
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
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

POWER SOLUTIONS

Part No	Fusion Excel Pack with built in modules - 30 U
905100603	Alston Systems, Fusion Excel - 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	Alston Systems, Fusion Excel - 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	Alston Systems, Fusion Excel - 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	Alston Systems, Fusion Excel - 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	Alston Systems, Fusion Excel - 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	Description
Fusion Power module	
905010003	Alston Systems Fusion Power module 30KVA/30KW
Fusion Modular UPS Accessories	
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
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
905090113	Alston Systems SNMP Card
905090123	Alston Systems Battery compensation kit
905090133	Alston Systems Parallel kit

Part No.	Fusion Ultra Pack with built in modules - 42 U
905600903	Alston Systems, Fusion Ultra - 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	Alston Systems, Fusion Ultra - 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	Alston Systems, Fusion Ultra - 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	Alston Systems, Fusion Ultra - 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	Alston Systems, Fusion Ultra - 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

