

PlusMAX 1 Series

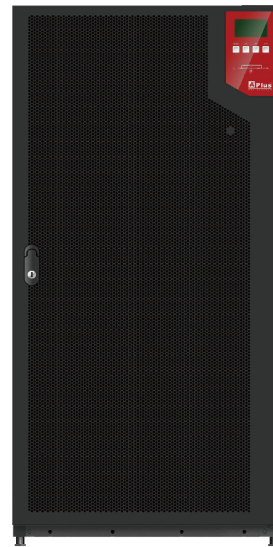
20KVA to 200KVA

Key Features

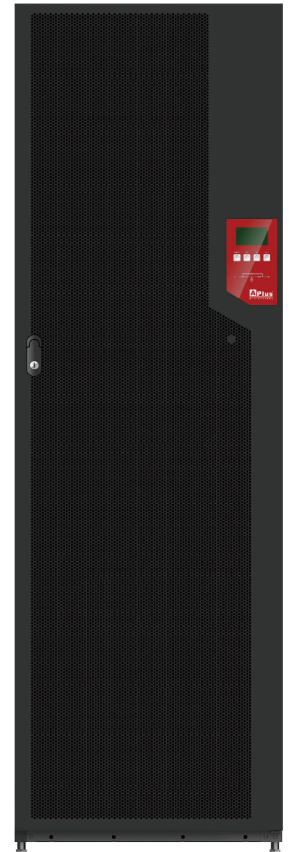
- › Parallel up to 4
- › Compact footprint
- › High frequency design
- › Output power factor 0.9
- › Adjustable battery quantity
- › Intelligent battery management
- › Double conversion on-line topology
- › Efficiency up to 94% in inverter mode
- › Enhanced environmental adaptability design



20-40KS



60-80KS



100-200KS

Typical Application



Security and
Surveillance System



Financial
Services



Telecom



Data Center



Manufacturing
Process Control



Petro Chemical
Industry



Building
Management



Automatic
Control System

Specification

MODEL	PlusMAX 1-20KS	PlusMAX 1-30KS	PlusMAX 1-40KS	PlusMAX 1-60KS	PlusMAX 1-80KS
CAPACITY					
Power rating KVA	20	30	40	60	80
Power rating KW	18	27	36	54	72
INPUT					
Topology	PWM, IGBT based				
Rated voltage	380Vac/220Vac (400/415Vac selectable)				
Voltage range	-45% ~ +25%, depends on load percentage				
Input power factor	0.99				
THD(i)	<3%				
Rated Frequency	50/60Hz auto sensing				
Frequency range	42-72Hz				
OUTPUT					
Power factor	0.9				
Efficiency	Up to 94% in online mode; >98% in ECO mode				
Output voltage	380Vac/220Vac +/- 1% (400/415Vac selectable)				
Output frequency	50/60Hz				
Overload Capacity	<105% continuous run; 105%-125% 10min; 150% 1min				
THDV	<2% for Linear load				
Unbalanced load	100%				
Crest factor	3:1				
BYPASS					
Internal static switch	Standard				
Bypass voltage	380Vac (+/- 15%)				
Maintenance bypass switch	Standard				
BATTERY					
Battery type	VRLA				
Backup time	Varies from battery capacity and load situation				
Battery PCS	20KS/30KS/40KS/60KS/80KS: 28-36 PCS adjustable, 32 PCS as default				
Recharge time	8 hours to 90%				
COMMUNICATION					
Interface	RS232, USB, 2 Com slots, 3 Building alarm, EPO				
Com cards (optional)	SNMP/WEB, Modbus/Ethernet, AS400, NMC				
ENVIRONMENT					
Running temperature	UPS:0-40°C; Battery: 25°C				
Storage	-25 ~ 55°C without battery; +15 ~ 25°C with battery				
Humidity	5% ~ 95%				
Elevation	No derating < 1000m				
Noise level	20kVA≤55 dBA@1 meter front side; 30-40kVA≤62 dBA@1 meter front side; 60-120kVA≤65 dBA@1 meter front side; 160-200kVA≤70 dBA@1 meter front side				
DIMENSION					
W*D*H (mm)	420*715*900			600*720*1200	
REGULATION					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-4				
Quality	ISO9001				
Certification	CE				

*Product specifications are subject to change without further notice.

Specification

MODEL	PlusMAX 1-100KS	PlusMAX 1-120KS	PlusMAX 1-160KS	PlusMAX 1-200KS
CAPACITY				
Power rating KVA	100	120	160	200
Power rating KW	90	108	144	180
INPUT				
Topology	PWM, IGBT based			
Rated voltage	380Vac/220Vac (400/415Vac selectable)			
Voltage range	-45% ~ +25%, depends on load percentage			
Input power factor	0.99			
THD(i)	<3%			
Rated Frequency	50/60Hz auto sensing			
Frequency range	42-72Hz			
OUTPUT				
Power factor	0.9			
Efficiency	Up to 94% in online mode; >98% in ECO mode			
Output voltage	380Vac/220Vac +/- 1% (400/415Vac selectable)			
Output frequency	50/60Hz			
Overload Capacity	<105% continuous run; 105%-125% 10min; 150% 1min			
THDV	<2% for Linear load			
Unbalanced load	100%			
Crest factor	3:1			
BYPASS				
Internal static switch	Standard			
Bypass voltage	380Vac (+/- 15%)			
Maintenance bypass switch	Standard			
BATTERY				
Battery type	VRLA			
Backup time	Varies from battery capacity and load situation			
Battery PCS	100KS/120KS/160KS/200KS: 36-40 PCS adjustable, 40 PCS default			
Recharge time	8 hours to 90%			
COMMUNICATION				
Interface	RS232, USB, 2 Com slots, 3 Building alarm, EPO			
Com cards (optional)	SNMP/WEB, Modbus/Ethernet, AS400, NMC			
ENVIRONMENT				
Running temperature	UPS:0-40°C; Battery: 25°C			
Storage	-25 ~ 55°C without battery; +15 ~ 25°C with battery			
Humidity	5% ~ 95%			
Elevation	No derating < 1000m			
Noise level	20kVA≤55 dBA@1 meter front side; 30-40kVA≤62 dBA@1 meter front side; 60-120kVA≤65 dBA@1 meter front side; 160-200kVA≤70 dBA@1 meter front side			
DIMENSION				
W*D*H (mm)	600*800*1876		600*830*1876	
REGULATION				
Safety	IEC/EN 62040-1			
EMC	IEC/EN 62040-2			
Performance	IEC/EN 62040-4			
Quality	ISO9001			
Certification	CE			

*Product specifications are subject to change without further notice.