

SMART MODULE XS

SERIES

20-150 kVA

3:3
PHASE

ONLINE UPS



DATA CENTER



MEDICAL



TRANSPORT



INDUSTRY



EMERGENCY



UPS ONLINE



MODULAR SYSTEM



POWER FACTOR



SERVICE



kW=kVA

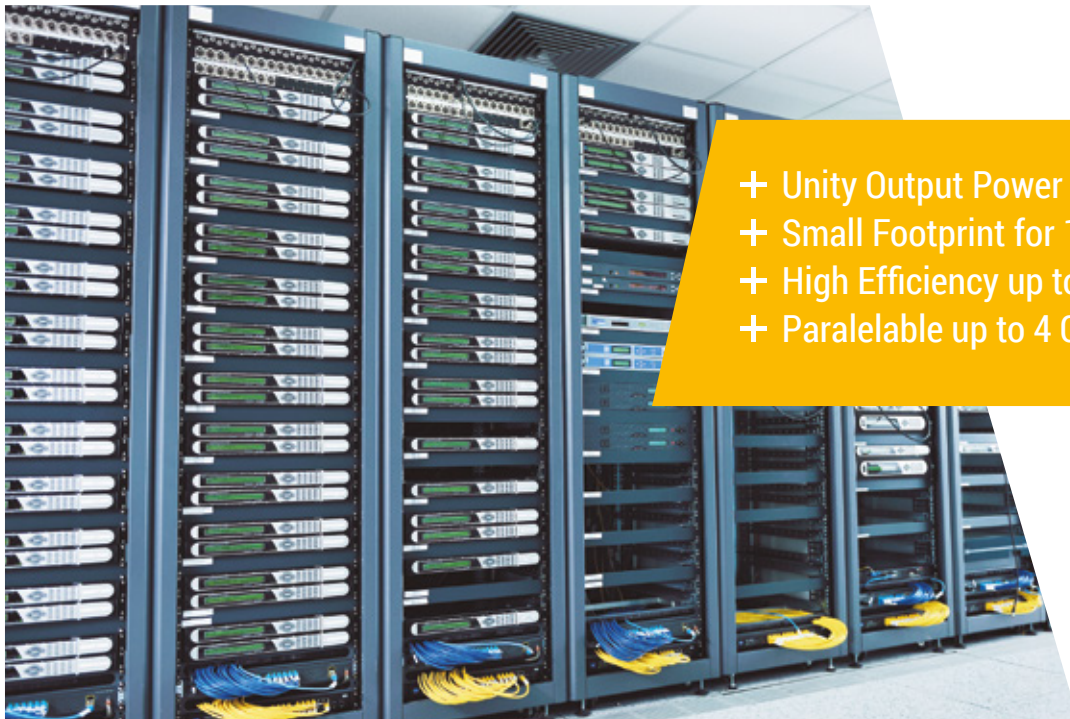


96%
Efficiency



Small Footprint Modular UPS Design for 19' Racks

- + Online Double-Conversion Modular UPS Modular Design
- + Very Small Footprint (500KW/m²)
- + Decentralized Architecture with Common Bypass
- + Hot-Swappable Inverter Module
- + Hot Power Increase
- + Three-Level Full IGBT Active Rectifier
- + Efficiency up to 96.5% from 25 to 100% Load
- + Wide Input Voltage Range 138-485V,
- + PF Input Power Factor ≥ 0.99
- + THDI Input Current $< 2.74\%$
- + TH of the Output Voltage $< 1\%$
- + Automatic and Manual Battery Test
- + Modular Bypass Module (Hot Plug)
- + Up to -50% in admitted Input Voltage
- + Optimized Fan Speed
- + Memorization of the last 5000 Events
- + Separate Bypass Input
- + Manual Maintenance Bypass
- + Battery Longevity through Intelligent Management
- + 7 inch Color Touch Screen for 120KW Chassis
- + Remote Emergency Stop (EPO)
- + Ease of Installation and Maintenance



- + Unity Output Power Factor 1
- + Small Footprint for 19' Racks
- + High Efficiency up to 96,5%
- + Paralelable up to 4 Chassis

Advanced Communication Features

- Remote control panel (optional)
- RS232, RS485, Modem, Modbus communication
- Internet management technology (web card, SNMP) optional
- Remote monitoring and management software
- Dry contacts and customer inputs



MODEL	Module XS 30K-60K	Module XS 30K-120K	Module XS 30K-150K
UPS Cabinet	30k~60k / 30k~60k	30k~120k / 30k~120k	30k~150k / 30k~150k
Max. Number	2	4	5+1
Module	Module XS 30K Power Module (30k / 30k)		
MODEL	Module XS 25K-50K	Module XS 25K-100K	Module XS 25K-150K
UPS Cabinet	25k~50k / 25k~50k	25k~100k / 25k~100k	25k~120k / 25k~150k
Max. Number	2	4	6
Module	Module XS 25K Power Module (25k / 25k)		
MODEL	Module XS 20K-40K	Module XS 20K-80K	Module XS 20K-120K
UPS Cabinet	20k~40k / 20k~40k	20k~80k / 20k~80k	10k~120k / 10k~120k
Max. Number	2	4	6
Module	Module XS 20K Power Module (20k / 20k)		
MODEL	Module XS 15K-30K	Module XS 15K-60K	Module XS 15K-90K
UPS Cabinet	15k~30k / 15k~30k	15k~60k / 15k~60k	10k~90k / 10k~90k
Max. Number	2	4	6
Module	Module XS 15K Power Module (15k / 15k)		
MODEL	Module XS 10K-20K	Module XS 10K-40K	Module XS 10K-60K
UPS Cabinet	15k~20k / 15k~20k	15k~40k / 15k~40k	10k~60k / 10k~60k
Max. Number	2	4	6
Module	Module XS 10K Power Module (10k / 10k)		
INPUT			
Nominal Voltage	380/400/415 VAC, (3Ph+N+PE)		
Operating Voltage Range	138~305VAC for 40% Load; 305~485VAC for 100% Load;		
Operating Frequency Range	40Hz~70Hz		
Power Factor	≥0.99		
Harmonic Distortion (THDi)	3% (100% Linear Load)		
Bypass voltage Range	Max. Voltage: 220V: +25% (Optional +10%,+15%,+20%); 230V: +20% (Optional +10%,+15%); 240V: +15% (Optional +10%) Min. Voltage: -45% (Optional -10%, -20%, -30%)		
Bypass Frequency Range	Frequency Protection Range: ±10%		
Generator Input	Support		
Backfeed Protection	Support		
OUTPUT			
Rated Voltage	380/400/415VAC, (3Ph+N+PE)		
Power Factor	1.0		
Voltage Regulation	±1%		
Output Frequency	Synchronize with Input, when the Input Frequency > ±10% (±1%/±2%/±3%/±4%/±5% Optional), Output 50/60 (±0.1Hz) (50/60±0.1%)Hz		
Crest Factor	3:1		
Harmonic Distortion (THD)	≤2% with Linear Load; ≤4% with Nonlinear Load		
Efficiency	Up to 95.8%		
BATTERY			
Battery Voltage	Optional Voltage: ±180/192/204/216/228/240/252/264/276/288/300VDC (30/32/34/36/38/40/42/44/46/48/50pcs Optional) 360VDC~600VDC (30~50 pcs), 30pcs Default, 36~50 pcs Fully Output; 32~34 pcs Output Power Factor 0.9; 30 pcs Output Power Factor 0.8)		
Power module Charge Current	18A (Max.)		
UPS cabinet Max. Charge Current	36A	72A	108A
SYSTEM FEATURES			
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 0ms		
Overload	Line Mode	≤110%, 60min; ≤125%, 10min; ≤150%, 1min; to Bypass >150% Shut down Immediately	
	Bat. Mode	135% Overload for Long Term; >1000% Overload for 100ms	
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS Immediately		
Low battery voltage	Alarm and Switch Off		
Self-diagnostics	Upon Power On and Software Control		
EPO (Optional)	Shut Down UPS Immediately		
Battery	Advanced Battery Management		
Noise Suppression	Complies with EN62040-3		
Audible & Visual alarms	Line Failure, Battery Low, Overload, System Fault		
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault		
Reading on the LCD display	Input, Output, Battery, Command, Setting, Maintenance		
Communication interface	CAN, RS485, Parallel, Dry Contact Port, Relay Card (Optional), SNMP Card (Optional), Battery Temperature Sensor (Optional)		
ENVIRONMENTAL			
Operating Temperature	0°C~40°C		
Storage Temperature	-25°C~55°C		
Humidity Range	0~95% (Non Condensing)		
Altitude	<1500m		
Noise Level (from 1M Distance)	<58dB	<60dB	<62dB
PHYSICAL			
Dimension	UPS Cabinet	485×353 (8U) × 850	485×575 (13U) × 850
	Power Module	440×86 (2U) × 620	485×752 (17U) × 850
Net Weight	UPS Cabinet	142	153
	Power Module	10kVA:19. 15-30kVA:21	295
STANDARDS			
Audible & Visual Alarms	IEC/EN62040-1, IEC/EN60950-1		
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8		

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