



BRITIPower

UPS Range

Oxford Rack-Tower Model 04 On-Line UPS

- **Power range:** 1~10kVa
- **Mode:** Single Phase
- **Type:** On-Line



Product Description

The Oxford Model 04 Series is a high-performance online double-conversion rack-mounted UPS, designed to deliver reliable and stable power protection for critical electronic systems. Ranging from 1kVA to 10kVA, the series is built with advanced fully DSP-controlled technology, ensuring precise power management, fast dynamic response, and enhanced system stability in demanding environments.

For 6–10kVA models, the Oxford Model 03 Series incorporates advanced three-level inverter technology, significantly improving energy efficiency to as high as 95%. Combined with a unity power factor ($kW = kVA$), this design maximizes usable output capacity, making it highly efficient for modern IT and industrial loads.

Engineered in a compact 2U rack form factor with high power density, the Oxford Model 04 Series delivers maximum performance while minimizing space requirements. Its standardized 19-inch rack compatibility allows seamless integration into server cabinets and IT infrastructure. This makes it an excellent solution for environments where space efficiency, reliability, and power quality are equally critical.

The Oxford Model 04 Series is designed to provide consistent, clean power for sensitive equipment, ensuring uninterrupted operation during voltage fluctuations, surges, or outages. With intelligent battery management, advanced thermal control, and comprehensive protection features, it extends system lifespan while maintaining optimal performance.

Overall, the Oxford Model 04 Series is a versatile and efficient UPS solution tailored for modern data-driven environments requiring dependable power continuity and scalable protection.

Key Features

Common Features (1–10kVA)

- Wide input voltage range with input power factor > 0.99 for improved energy efficiency and grid compatibility
- Compatible with standard 19-inch rack cabinets and battery cabinets for easy system integration
- Comprehensive protection against overvoltage, short circuit, and overtemperature conditions
- LCD/LED display providing real-time system status monitoring and diagnostics
- Intelligent automatic fan speed control for optimized cooling and reduced noise
- Multiple communication interfaces including RS232, USB, SNMP, and intelligent card support for remote monitoring and management

Unique Features (6–10kVA)

- High operating efficiency of up to 95%, reducing energy loss and operational costs
- Unity power factor output ($kW = kVA$, $PF = 1$) for maximum usable power capacity
- Intelligent battery charging management to enhance battery performance and extend service life
- Advanced three-level technology designed for improved performance and compatibility with complex and non-linear loads



Applications

- Internet Data Centers (IDC)
- Network infrastructure
- Servers and workstations
- Industrial control systems
- Communication systems
- Office environments
- Personal computers and other sensitive electronic equipment

To Order

Ordering information on page 3.

Technical Specification

	OXM4-6XS	OXM4-6XL	OXM4-10XS	OXM4-10XL
INPUT				
Cold Start	YES, Default output frequency will be 50Hz or settable			
Acceptable Input Voltage	110VAC~288VAC			
	100% load@>176VAC			
	90% load@>154VAC			
	75% load@>132VAC			
	50% load@>110VAC			
Phase	Single phase in,single phase out			
Transfer Voltage Range	200VAC/208VAC/220VAC/230VAC/240VAC			
-Line low transfer	110VAC			
-Line low recovery	121VAC			
-Line high transfer	288VAC			
-Line high recovery	281VAC			
Input Current				
-Rating(full charging)	28.9A/220V		48.1A/220V	
-Maximum input current	32.5V/176V		54.1A/220V	
-Input Power Factor	≥0.99			
-Input current distortion	<4%			
-Input Frequency Range	40~70Hz			
OUTPUT				
Frequency adaptable	Settable			
Power	6KVA		10KVA	
Power(kW)	6KW		10KW	
Output Voltage - Waveform(Bat. Mode)	Pure Sine Wave			
Output Voltage - Nominal voltage	220VAC/230VAC/240VAC, 200VAC/208VAC(PF=0.9)			
Output Voltage - Voltage regulation	± 1 %			
Output Voltage - Voltage distortion	≤2% THD, linear load			
	≤ 5% THD, non linear load			
Output Frequency - Synchronization range	±5Hz default, settable			
Output Frequency - Battery mode	(50±0.1) Hz default			
Transfer Time				
-Line mode to battery mode	0ms			
-Inverter to bypass	2ms			
Efficiency				
-Line mode with battery full charged	94.6%@100% load, 95%@50% load			
-ECO mode	98.0%			
Noise(1m away)	<58dB			
Overload Capability(Inverter)	105% to 110% : Transfer to bypass after 10 mins.			
	111% to 125% : Transfer to bypass after 1 mins.			
	126% to 150%: Transfer to bypass after 30s			
Overload Capability (Bypass Mode)	less than 125%: long time running			
	126% to 130% :Shutdown in 5 mins			
	131% to 150% :Shutdown in 1 mins			
Crest Ratio	3:1			

To Order

To place an order, use the contact details below.

BATTERY				
Rating/Type	12VDC/7Ah	Depend on the capacity of external batteries	12VDC/9Ah	Depend on the capacity of external batteries
Quantity	16PCS	16-20PCS settable	16PCS	16-20PCS settable
DC Voltage	192VDC default, settable			
Back-up Time	7mins @5kW	Depend on the capacity of external batteries	6mins @5kW	Depend on the capacity of external batteries
Charger				
-Charging current (max)	1A, settable	5A max,settable	1A,settable	5A max,settable
-Float Charging Voltage	2.25V/cell default, settable via software			
-Boost Charging Voltage	2.25V/cell default, settable via software			
-Charging time	8h recharge to 90%	Depend on the capacity of external batteries	8h recharge to 90%	Depend on the capacity of external batteries
Indicator & Alarm				
-Display	LED+LCD			
Interface				
-Smart RS232	Standard Cable support INVT Power Monitor Software			
-EPO	NC			
-RS485(option)	Installed in the intelligent slot			
-SNMP(option)	Power Managment from SNMP Manager and Web Browser			
Option				
-Intelligent Kits	DB9 port, dry contact			
-parallel	4 units paralleled			
-Super charger (12A)	digitally controlled, 4-steps charge, settable, @PF0.9			
-USB	B-type USB port			
-SNMP Kits	Pluggable type			
Mechanical				
-W*D*H (mm)	440*740*173	440*630*86	440*735*173	440*625*86
-Net Weight (KG)	59	18	67	21
-Package Weight (KG)	62	21	70	24
-Rack / Tower	Rack/Tower			
Color	Black default			

Back Up Time

	Battery Voltage	Load (%)	Load(W)	Backup time(min)			
				1 EBP	2 EBP	3 EBP	4 EBP
6kVA	16PCS 7AH12v	50%	3000	15min	30min	45min	60min
		75%	4500	10min	20min	30min	40min
		100%	6000	5min	12min	18min	24min
10kVA	16 PCS 9AH12v	50%	5000	8min	16min	24min	32min
		75%	7500	4.5min	9min	13.5min	18min
		100%	10000	2.5min	5min	7.5min	10min

FUNCTION	Compatible with half wave load
	Bypass input breaker
	ECO mode
	Battery cabinet
	Self aging
	Digital Charger
	Remained Battery Capacity
	Optional 12A charger (PF will be de rated to 0.9)

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