



ION F23 is the worlds most compact three phase data centre grade UPS system providing up to 25kW of power in a tiny 3RU footprint*. Available in either 10-25kW modules and a flexible design with input and output phases that can be configured 3:3 or 3:1. The F23 is ideally suited for installation into any existing or new rack in a data centre. The F23 comes with a large 5.5" touch colour LCD with graphic display and can be installed with existing off the shelf hot swap battery packs or configured to run with large customised battery strings. The UPS can be paralleled to further increase the power output. Its high efficiency of 98% in ECO mode and compact flexible design makes the F23 the ideal choice for small and medium data centre solutions.



F23 FEATURES

- 2 year warranty*
- Online double conversion technology
- Unity Power factor
- High efficiency of 98% in ECO mode
- High power density, compact 3RU 10kW, 15kW, 20kW, 25kW power modules
- Optional phase configuration of 3:3, 3:1
- Large friendly 5.5" touch colour LCD with graphic display
- Modular design compatible with 19" rack cabinets or configurable for standalone / tower
- Intelligent battery charging management
- SNMP Communication card included

F23

3 Phase UPS

Specifications

	F23-10	F23-15	F23-20	F23-25
Output				
Output Power Capacity	10kW/10kVA	15W/15kVA	20W/20kVA	25W/25kVA
Max Configurable Power (Watts)	10kW/10kVA	15W/15kVA	20W/20kVA	25W/25kVA
Rated Inverter Voltage	380/400/415VAC (Line-Line)			
Rated Frequency	50/60Hz			
Power Factor	1			
Voltage precision	±1% for balance load; ±1.5% for unbalance load			
Transient Response	<5% for stepload (20% - 80% -20%)			
Transient recovery	< 30ms for stepload (0% -100% -0%)			
Output Voltage THDu	< 1% ,linear load; <5.5% , Non-linear load		< 1.5% , linear load; < 6% , Non-linear load	
Crest Factor	3:01			
Inverter Overload	110% for 60min; 125% for 10min; 150% for 1min; >150% for 200ms			
Frequency Regulation	50/60Hz±0.1%			
Synchronized Range	Settable, ±0.5Hz ~ ±5Hz, default ±3Hz			
Synchronized Slew Rate	Settable, 0.5Hz/S ~ 3Hz/S, default 0.5Hz/S			
Main Input				
Grid System	3 Phases + Neutral + Ground			
Rated Input Voltage	380/400/415VAC (Line-Line)			
Input Voltage Range	304~478Vac (Line-Line),full load 228V~304Vac (Line-Line),load decrease linearly according to the min phase voltage			
Input Frequency Range	40Hz~70Hz			
Input Power Factor	>0.99			
Input Current THDi	< 4% (full Linear Load)		< 3% (full Linear Load)	
Bypass Input				
Rated Bypass Voltage	380/400/415VAC (Line-Line)			
Rated Frequency	50/60Hz			
Bypass Voltage Range	Selectable, default -20% ~ +15% Up limited: +10%, +15%, +20%, +25% Down limited: -10%, -15%, -20%, -30%, -40%			
Battery				
Battery Rate Voltage	±240VDC			
Battery Number	40pcs			
Charge Voltage Precision	±1%			
Charger Power	Up to 20% * Output active power			
Battery cold start	Standard			
Efficiency				
Normal Mode	>95%		>95.5%	
ECO Mode	98%			
Battery Mode	>94.5%		>95%	
System				
Display	LCD+LED + touchscreen			
Interface	Standard:RS232, RS485, Programmable dry contact			
Option	SNMP, Parallel kit & USB		SNMP, Parallel kit & USB, LBS	
Dimensions				
Module Dimension: (mm) W x D x H	485*750*130			
Module Weight (kg)	25kg		30kg	
Conformance				
Approvals	CE			
Standard warranty	2 Year Manufacturer's Warranty*			

*Product specifications are subject to change without further notice.

*2 year warranty on UPS electronics and batteries please refer to the ION website for more information.