



info@ionups.com.au  
www.ionups.com.au  
P: 1300 700 805

# F21

## 3Phase Modular UPS

10kW - 90kW



ION F21 is a modular, scalable online UPS ranging from 10kW to 90kW with a flexible design that can be 3:3, 3/1 or 1:1 configurations and can even be installed and integrated into existing rack cabinets. The F21 comes with a large 7" touch colour LCD with graphic display and optional modular hot swap battery shelves. With its high efficiency of 98% in ECO mode and compact flexible design makes the ideal choice for small and medium data centre solutions.



## F21 FEATURES

- 2 year warranty\*
- Online double conversion technology
- Unity power factor 1.0
- High efficiency of 98% on ECO mode
- High power density compact 2RU 10kW & 15kW power modules
- Optional factory configuration of 3:3, 3:1 or 1:1 without derating or hardware upgrades
- Large Friendly 7" touch colour LCD with graphic display
- Modular design compatible with 19" rack cabinets
- Intelligent battery charging management

# F21

## 3Phase Modular UPS

### Specifications

	F21-20-10M	F21-40-10M	F21-60-10M	F21-90-15M	
<b>Output</b>					
Output power capacity	20kW/20kVA	40kW/40kVA	60kW/60kVA	90kW/90kVA	
Max Configurable Power (Watts)	20kW/20kVA	40kW/40kVA	60kW/60kVA	90kW/90kVA	
Power module type	PM10M(10kW/10kVA)			PM15M(15kW/15kVA)	
Voltage	3 phase:380/400/415V				
	1 phase:220/230/240V				
Voltage regulation	1,5%				
Power Factor	1				
THDu	THD<1% (linear load), THD<5.5% (None linear load)				
Crest ratio	3:01				
Overload capability	110% for 1 hour; 125% for 10 minutes ;150% for1 minute; >150% for 200ms				
<b>Input</b>					
Phase	3P + N + G (380/400/415V)				
Voltage range	304-478Vac (line-line),100% load;				
	228-304Vac, load derated from 100%-75% linearly				
Frequency range	40Hz-70Hz				
Power Factor	>0.99				
THDi	THDi<4% @ 100% linear load				
<b>Battery</b>					
Voltage	±240VDC				
Charge Power	20%*System Power				
Charge voltage precision	±1%				
<b>System</b>					
System efficiency	Normal mode: 95%; ECO mode: 98%; Battery mode: 94.5%				
Display	7.0" Colour touch screen LCD + LED + Keyboard				
IP Class	IP20				
Interface	Standard: RS232, RS485, Dry contacts;				
	Optional: SNMP, Expansion dry contact card				
Operation/Storage temperature	0-40°C/-25-70°C				
Relative Humidity	0-95% (non-condensing)				
Noise	56dB @ 50% load (1 meter away)				
<b>Physical</b>					
Weight	Cabinet	42kg	51kg	70kg	
	Power module	15.3kg			15.5kg
Dimension (W*D*H)	Cabinet	485*697*398	485*697*575	485*751*1033	485*751*1033
	(mm)	(7U)	(11U)		
	Power module	436*590*85 mm (2U)			436*590*85 mm (2U)
<b>Conformance</b>					
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.