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# F35

## 3Phase Modular UPS

50kVA-500kVA



The ION F35 series is a modular, online UPS ranging from 50kVA to 500kVA and is designed to protect any critical load for medium and large data centre solutions achieving maximum availability. Each power module has an independent LCD that gives user's a direct overview of status data and alarms in real time. The ION F35 series feature the latest 3-level technology and PFC input control, that guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 500kVA in one cabinet and 3 units can be paralleled for capacity or redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.



## F35 FEATURES

- 2 year warranty\*
- 96% double conversion efficiency
- Friendly HMI large 10.4" touch colour LCD with graphic display
- Independent LCD for each power module
- Compact design 500kVA in one cabinet
- High power density 50kVA Hotswap power module in 4U height, easy for capacity expansion
- Intelligent charging management
- High scalability 50kVA to 500kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA

# F35

## 3Phase Modular UPS

### Specifications

	F35-100-50M	F35-200-50M	F35-300-50M	F35-500-50M
<b>Output</b>				
Output power capacity	90kW/100kW	180kW/200kVA	270kW/300kVA	450kW/500kVA
Max Configurable Power (Watts)	90kW/100kW	180kW/200kVA	270kW/300kVA	450kW/500kVA
Power module	45kW/50kVA			
Voltage	380/400/415V			
Voltage regulation	1% for balance load; 1.5% for unbalance load			
Power factor	0,9			
THDu	THD<1%(linear load ),THD<5.5% (None linear load)			
Crest ratio	3:01			
Overload capability	110% for 60 minutes; 125% for 10 minutes; 150% for 1 minute; >150% for 200ms			
<b>Input</b>				
Phase	3P+ N + G (380/400/415V)			
Voltage Range	304-478Vac (line-line),100% load; 304-228Vac, load derated linearly			
Frequency Range	40Hz-70Hz			
Power Factor	>0.99			
THDi	THDi<3% @ 100% linear load			
<b>Battery</b>				
Voltage	±240VDC			
Charge Power	20%*System Power			
Charge voltage precision	±1%			
<b>System</b>				
System efficiency	Normal mode:96% ;Battery mode:96%			
Display	10.4" Color touch screen LCD + LED + Keyboard			
IP class	IP20			
Interface	*Standard :RS232,RS485,USB,Dry contacts(programmable); Optional: SNMP ,AS400,Parallel kit, Battery cold start(standard for 300kVA and 500kVA), Lightning protection components, Dust filter, LBS*			
Operation/Storage temperature	0-40°C/-25-70°C			
Relative humidity	0-95% (non-condensing)			
Noise	72dB @ 100% load; 69dB @ 45% load (1 meter away)			
<b>Physical</b>				
Weight (kg) - Cabinet	120	170	220	450
Weight (kg) - Power module	45			
Dimensions: (mm) W x D x H - Cabinet	600*980*1150	650*960*1600	650*960*2000	1300*1100*2000
Dimensions: (mm) W x D x H - Power Module	510*700*178			
<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.