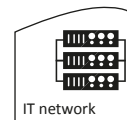
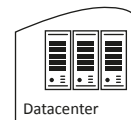


## THREE-PHASE ONLINE UPS



### Features

- High energy density modules with true hot-swappable technology for power and bypass modules, continuity, and protection of your load are always guaranteed.
- Power factor of 1 (kW = kVA): maximum active power available.
- Very high efficiency (up to 99.3% in ECO Smart Mode) for maximum energy savings: bypass and inverter work together and jointly supply power with 0 transfer time.
- Up to 4 units can be connected in parallel (up to 3.6 MW) in power and redundancy.
- Long component life for a lower TCO (Total Cost of Ownership): the Energy Saver function automatically makes the power modules work in rotation, also ensuring greater efficiency.
- Designed to minimize the impact on generators avoiding their oversizing.
- Optimised footprint for maximum installation versatility to make installation possible in any type of environment.
- Centralized bypass for an easier installation, better balancement, and lower risk of bypass overload.
- Variable and settable battery string configuration from LCD for maximum installation flexibility.
- Minimum battery level that can be set based on the discharge current that allows you to always use the batteries at their best, maximizing their expected life.

- High quality long life capacitor (up to 10 years of useful life under favorable operating conditions).
- Cold start function (it enables the UPS to start up without input power).
- Compatible with lithium-ion batteries or other technologies.
- Events log downloadable directly from LCD with USB port.
- Dual input connection.
- Internal manual bypass.
- User-friendly touch LCD with graphic multilanguage user interface design.
- Communication slot for optional SNMP card.
- Built-in RS485-ModBus, dry contacts, and USB included.

### Key options

- Input/output/bypass breaker
- SNMP card
- Insulation transformer
- Single source kit
- Extra charger module for long autonomy

### Combo solution 60kVA

- Up to 4 strings of 40x9Ah internal batteries
- Fuses protection on each strings

## MODULAR UPS TOTALLY SCALABLE, FOR MAXIMUM PROTECTION OF DATA CENTERS AND CRITICAL LOADS

The modular UPS three-phase series, with a completely hot swappable design with 15-25-75kVA/kW modules, protects any type of critical load, ensuring the highest levels of power protection, availability, redundancy and savings.

MODEL		MD 15-900								
POWER	KVA	15			25			75		
	KW	15			25			75		
INPUT	Rated voltage	400V three-phase+neutral								
	Voltage tolerance	±20% @100% load, -40% ~+20% @50% load								
	Rated frequency	40~70 Hz								
	Power factor	≥ 0.99								
	Current distortion (THDI)	<3%								
OUTPUT	Rated voltage	380/400/415 V three-phase with neutral								
	Voltage stability	±1% (static load)								
	Frequency	50/60Hz								
	Frequency stability	±0.01% (free running)								
	Power factor	1								
	Crest factor	3:1								
	Voltage distortion	<2 with Linear load, <4 with distorting load								
BATTERY	Overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 second								
	Battery cabinet type	modular			classic					
	Battery layout	modular type, 4 strings			free stand cabinet					
	Number per string (batt 12V)	40			32-44pcs configurable					
EFFICIENCY	Max. charging current	3A per module			5A per module			15A per module		
	VFI mode	up to 95.3%			up to 95.6%			up to 96%		
	ECO Smart mode	99.3%								
BYPASS	Battery mode	up to 95.2%			up to 95.5%			up to 95.7%		
	Rated voltage	380/400/415 V three-phase + neutral								
	Voltage tolerance	-40% ~ +20% (programmable)								
	Frequency	50/60Hz								
GENERAL	Frequency tolerance	50/60Hz±4%						50/60Hz±6%		
	Cabinet type	MD-C60 Combo cabinet	MD-R30	MD-R60	MD-R120	MD-R150	MD-R250	MD-R450	MD-R600	MD-R900
	Nominal power model (kVA)	15KVA			25KVA			75KVA		
	Max power module	up to 4	up to 2	up to 4	up to 8	up to 6	up to 10	up to 6	up to 8	up to 12
	Parallel	up to 4								
	Cabinet dimensions W x D x H mm	600x1100x2000	442x800x913	442x800x1090	442x800x1578	600x1000x1600	600x1000x2000	900x1000x2000	1200x1000x2000	1800x1000x2000
	Weight (Kg) *	444	122	164	263	284	410	650	800	1200
	Protection class	IP20								
CONNECTIVITY	User interface	7" colour LCD touch screen display								
	Built in communication port	USB, 1 slot, EPO, RS485-ModBus, RS232 GEN, BCB, 4 IN/8 OUT dry contact relay				USB, 1 slot, EPO, BFP, RS485-ModBus, RS232 GEN, BCB, 4 IN/8 OUT dry contact relay				
	Optional communication	Cards: SNMP, battery temperature sensor								
ENVIRONMENTAL PARAMETERS	Operation Temperature **	0~40°C								
	Relative humidity	0 to 95%, (without condensation)								
	Altitude (a.s.l.)	<1000 m with no power derating, >1000 m with 1% derating for every 100m								
	Noise level dB	<70 dBA								
REGULATIONS	Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3								
	Mark	CE, UKCA								

\* Without battery for Combo version    \*\* To be verified according to the battery parameters