

MD TECHNICAL DATA SHEET

MODEL		MD 15-900									
POWER	kVA	15			25			75			
	kW	15			25			75			
INPUT	Rated voltage	400 Vac three-phase with 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 Vac three-phase with neutral									
	Voltage stability	±1% (static load)									
	Frequency	50/60 Hz									
	Frequency stability	±0.01% (free running)									
	Power factor	1									
	Crest factor	3:1									
	Voltage distortion	≤3% with linear load, ≤6% with distorting load									
	Permissible overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 second									
BATTERY	Battery cabinet	modular	classic								
	Battery architecture	modular, 4 strings	separate cabinet								
	Number per string (12V)	40	32–44 configurable					32–44 configurable			
	Max. charging current	3 A per module				5 A per module		15 A per module			
EFFICIENCY	VFI mode	up to 95.3%				up to 95.6%		up to 96%			
	ECO Smart mode	99.3%									
	Battery mode	up to 95.2%				up to 95.5%		up to 95.7%			
BYPASS	Rated voltage	380/400/415 V three-phase + neutral									
	Voltage tolerance*	-40% to +20% (selectable)									
	Frequency	50/60 Hz									
	Frequency tolerance	50/60 Hz±4%						50/60 Hz±6%			
GENERAL	Cabinet Model	MD COM-BO60-00 cabinet	MD R30-00	MD R60-00	MD R120-00	MD R150-00	MD R250-00	MD R450-00	MD R600-00	MD R900-00	
	Module power (kVA)	15				25		75			
	Power modules that can be installed	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 connection	up to 4									
	Cabinet dimensions (WxDxH) mm	600x1100x2000	442x800x662	442x800x840	442x800x1195	600x1000x1600	600x1000x2000	900x1000x2000	1200x1000x2000	1800x1000x2000	
	Weight (Kg) **	444	120	164	263	284	410	650	800	1200	
	Protection class	IP20									
CONNECTIVITY	User interface	7" colour LCD touch screen									
	Built-in communication ports	USB, 1 additional slot, EPO, RS485-ModBus, RS232 GEN, BCB, 4 in/8 out relay with dry contacts				USB, 1 additional slot, EPO, BFP, RS485-ModBus, RS232 GEN, BCB, 4 in/8 out relay with dry contacts					
	Optional accessories	Cards: SNMP, battery temperature sensor									
ENVIRONMENTAL PARAMETERS	Operating temperature***	0 – 40°C									
	Altitude (a.s.l.)	<1000 m with no power derating, >1000 m with 1% derating for every 100 m.									
	Relative humidity	0 – 95% (without condensing)									
	Audible noise at 1 m.	<70 dBA									
REGULATIONS	Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3									
	Marking	CE, UKCA									

* Subject to conditions ** Includes empty battery modules for Thor Combo *** To be verified according to the battery parameters