

	MODULAR DSP POWER FRAMES		
MODEL	MD-60	MD-80	BATMD-120
Output Power KW	60KW	80KW	--
UPS Modules (max.)	3pcs.	4pcs.	Battery Only
Inbuilt Batteries	Yes	Yes	Yes
Dimensions (cm)	19" 36U 1000mm	19" 42U 1000mm	19" 42U 1000mm
Weight (kg) w/o modules	130	145	145
	MODULAR DSP POWER MODULES		
Topology	Online double Conversion (VFI-SS-111)		
Operation Type	Real Current Sharing Parallel Redundant		
Max. Parallel Modules	8pcs		
Nominal Output Power	20 kVA ( 20kW ) per module		
INPUT			
Voltage	380V / 400V / 415V 3 Phase+N+G		
Tolerance @full load	± 20%		
Tolerance @half load	+20%...-40%		
Frequency	50/60Hz		
Tolerance	±10%		
Power Factor	0.99		
Current Harmonic Distortion (THDi)	<4%		
Max. inrush current at start up	<45Amp		
OUTPUT			
Power	20 kVA (20kW)		
Power Factor	1		
Voltage	380V/400V/415V 3Phase+N+G		
Tolerance(static condition)	±1%		
Tolerance(dinamic condition)	±3%		

Total Output Voltage Distortion rate on linear load	<3%
Total Output Voltage Distortion rate on non-linear load	<5%
Crest Factor	03:01
Frequency	50 or 60 Hz
Frequency Tolerance	±0.01%
Overload	
100%-125% load	10min.
125%-150% load	1min.
Overall Efficiency	up to 93%
Green Mode Efficiency	up to 97%
<b>BYPASS</b>	
Frequency Variation Speed	<1Hz/sec
Voltage Tolerance	±15%
Frequency	50 or 60 Hz
Frequency Tolerance	±2%
<b>BATTERY</b>	
Type	Maintenance-free lead acid or NiCd batteries
Quantity	28pcs...32pcs (configurable)
<b>DISPLAY</b>	
	LCD Graphical Touch Screen
<b>COMMUNICATION</b>	
Interface (Communication Ports)	RS232 Communication port and EPO as standard
	USB Port, SNMP, Dry Contact board (optional)
<b>PHYSICAL SPECIFICATIONS</b>	

Weight Without Battery (kg)	60		
Dimensions (mm) WxDxH	440x660x265 - 6U		
ENVIRONMENT			
Audible Noise	<55dBA		
Operating Temperature	0-40 °C		
Relative Humidity (non condensing)	0-95%		
Protection Level	IP20		
STANDARDS			
EN 62040-1-1 (safety), EN 62040-2(EMC), EN 62040-3 (Performance)			