

Multiline Series

3 Ph version 400V (380-400-415V)		ML 33010	ML 33015	ML 33020	ML 33030	ML 33040	ML 33060	ML 33080
Nominal power (kVA)		10	15	20	30	40	60	80
Active power (kW)		10	15	20	30	40	60	80
3 Ph version 208V (200-208-220V)		MLU 3305	MLU 3307,5	MLU 33010	MLU 33015	MLU 33020	MLU 33030	MLU 33040
Nominal power (kVA)		5	7,5	10	15	20	30	40
Active power (kW)		5	7,5	10	15	20	30	40
General Specs								
Technology	Three Level On-Line double conversion VFI-111							
Waveform	Sinusoidal							
Architecture	Stand Alone or Distributed Parallel up to 8 units							
Input Characteristics								
Input Voltage	380, 400, 415 V 3Ph+N+PE*, 200-208-220V 3Ph+N+PE**							
Input Frequency	45-65 Hz							
Voltage Tolerance (%100 load)	(-20)% (+20)%							
Voltage Tolerance (%40 load)	(-36)% (+20)%							
Input Power Factor	>0,99							
Input Current Harmonic	≤3%							
Output Characteristics								
Output Voltage	380, 400, 415 V 3Ph+N+PE*, 200-208-220V 3Ph+N+PE** (Adjustable from Front Panel)							
Output Voltage Tolerance	+1%							
Overall Efficiency (AC-AC)	Up to 96%* (Half load)							
Ecomode Efficiency	Up to 98,5%							
Nominal Output Frequency	50/ 60Hz +0,01 free run (Adjustable from LCD Panel)							
Crest Factor	3:1							
Output Power Factor	1							
THD of Output Voltage	<2% (at full linear load)							
Batteries								
Battery Type	VRLA-AGM Maintenance-Free							
Battery Test	Automatic or Manual							
Battery Quantity	20 to 40 (Adjustable)							
Battery Recharge Time	<6h-8h							
Cold Start	Present							
Bypass Characteristics								
Bypass	Built in Automatic and Maintenance Bypass							
Voltage Tolerance	±10%							
Transfer Time	0 ms							
Overload Capability	150% for 1 minutes							
Communication and management								
LCD Display	Graphical lcd screen, Led bar status							
Communication Ports	RS232,Genset, SNMP, Relay Contacts,Input Contacts, Modbus and USB (optional)							
Battery Temperature Sensor Contact	Available							
Emergency Power Off (Epo)	Yes							
Remote Display	Available							
Physical Characteristics								
Dimensions HxWxD(mm)	812x302x715		991x302x862		1200x430x960			
Net Weight (Kg)	48	51	65	71	105	125	140	
Ambient conditions								
Operating Temperature	0°C - 40°C							
Storage Temperature	-15°C/+ 55°C							
Proposed Temp. To Extend Battery Life	20- 25°C							
Relative Humidity (%)	<95% non condensing							
Noise at 1 m (dBA)	<55							
Protection Class	IP 20							
Compliance								
Reference Product Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)							

* for 3Ph 400V Version
** for 3Ph 208V Version