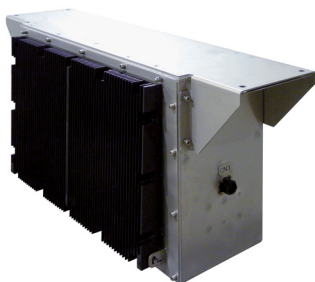

BORDLINE® M**Auxiliary Converters and Battery Chargers**
Product catalogue 2021

BORDLINE® M

Auxiliary Converters and Battery Chargers

Product catalogue 2021

Product Name	Input Voltage	Output AC	Output DC	Mounting	Special features
BORDLINE® M1 AC_400V	3AC 400 VAC	-	24 VDC / 1,5 kW	On board IP50	Passive cooled No galvanic isolation
BORDLINE® M1 DC_24V	24 VDC	-	-	On board IP20	Passive cooled No galvanic isolation
BORDLINE® M2 AC_400V	3AC 400 VAC	-	-	On board IP65	Passive cooled No galvanic isolation
BORDLINE® M6 AC_210-230V	1AC 210 VAC 1AC 230 VAC	-	110 VDC / 6,4 kW	On board IP20	Air forced cooled With galvanic isolation
BORDLINE® M7 AC_230-400-480V	3AC 400 VAC 3AC 480 VAC 1AC 230 VAC	-	24 VDC / 7 kW	On board IP20	Liquid cooled With galvanic isolation
BORDLINE® M7 DC_72V	72 VDC	3AC 460 VAC / 7,5 kVA	-	On board IP20	Air forced cooled With galvanic isolation
BORDLINE® M7 DC_750V	750 VDC	3AC 380 VAC / 8,7 kVA	-	Underframe IP65	Passive cooled No galvanic isolation
BORDLINE® M8 AC_65V	1AC 65 VAC	-	24 VDC / 8 kW	On board IP20	Air forced cooled No galvanic isolation
BORDLINE® M8 DC_750V	750 VDC	3AC 400 VAC / 10 kVA	-	Roof IP65	Passive cooled No galvanic isolation
BORDLINE® M10 AC_380V	3AC 380 VAC	-	110 VDC / 10 kW	Underframe IP65	Passive cooled No galvanic isolation
BORDLINE® M20 DC_750V	750 VDC	3AC 400 VAC / 17 kVA 3AC 400 VAC / 17 kVA	-	Roof IP43	Passive cooled No galvanic isolation
BORDLINE® M20 DC_750V	600 VDC 750 VDC	3AC 230 VAC / 13 kVA	48 VDC / 10 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M20 DC_3kV	3000 VDC	3AC 400 VAC / 21 kVA	-	On board IP54	Air forced cooled With galvanic isolation



BORDLINE® M7 DC_750V



BORDLINE® M20 DC_750V



BORDLINE® M20 DC_3kV

BORDLINE® M

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Product Name	Input Voltage	Output AC	Output DC	Mounting	Special features
BORDLINE® M25 AC_1000V	1000 VAC - 16.7 Hz	3AC 400 VAC / 30 kVA	-	Roof/ Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M30 DC_750V	750 VDC	-	24 VDC / 5 kW 72 VDC / 25 kW	Roof IP66	Passive cooled With galvanic isolation
BORDLINE® M30 DC_750V	750 VDC	3AC 400 VAC / 35 kVA	-	Underframe IP65	Air forced cooled No galvanic isolation
BORDLINE® M35 DC_750V	600 VDC 750 VDC	3AC 400 VAC / 33 kVA	24 VDC / 12 kW	Roof IP65	Passive cooled With galvanic isolation
BORDLINE® M35 DC_750V	750 VDC	3AC 415 VAC / 16 kVA	110 VDC / 20 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M40 DC_3kV	3000 VDC	3AC 480 VAC / 40 kVA	24 VDC / 6 kW	On board IP65	Air forced cooled With galvanic isolation
BORDLINE® M40 DC_750V	750 VDC	3AC 380 VAC / 35 kVA 1AC 220 VAC / 2,5 kVA	24 VDC / 3,6 kW 110 VDC / 8 kW	Underframe IP65	Liquid cooled With galvanic isolation
BORDLINE® M40 DC_750V	750 VDC	3AC 415 VAC / 46 kVA	-	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M40 DC_750V	750 VDC	3AC 415 VAC / 25 kVA	110 VDC / 18,9 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M45 AC_1000V	1000 VAC - 16.7 Hz	3AC 400 VAC / 45 kVA	36 VDC / 6,5 kW	Underframe IP55	Air forced cooled With galvanic isolation
BORDLINE® M45 MS_UIC	4 UIC	3AC 380 VAC / 45 kVA	24 VDC / 5 kW	Underframe IP55	Air forced cooled With galvanic isolation



BORDLINE® M40 DC_750V



BORDLINE® M40 DC_750V



BORDLINE® M45 MA_UIC

BORDLINE® M

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Product Name	Input Voltage	Output AC	Output DC	Mounting	Special features
BORDLINE® M50 AC_1000V	1000 VAC - 16.7 Hz	-	36 VDC / 14 kW	Roof/ Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M50 DC_1500V	1500 VDC	3AC 400 VAC / 45 kVA	24 VDC / 13 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M50 DC_1500V	1500 VDC	-	110 VDC / 8,5 kW	Underframe IP65	Air forced cooled With galvanic isolation High power density
BORDLINE® M55 DC_600V	600 VDC	3AC 230 VAC / 55 kVA 1AC 120 VAC / 2,4 kVA	24 VDC / 7,5 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M60 MS_UIC	4 UIC 3000 VAC	3AC 400 VAC / 60 kVA	110 VDC / 12 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M60 AC_480V	3AC 480 VAC	-	110 VDC / 60 kW	On board IP54	Liquid cooled With galvanic isolation
BORDLINE® M60 DC_3kV	3000 VDC	3AC 380 VAC / 65 kVA 1AC 220 VAC / 2,5 kVA	24 VDC / 6 kW	On board IP45	Liquid cooled With galvanic isolation
BORDLINE® M75 DC_600V	600 VDC	3AC 230 VAC / 55 kVA 1AC 120 VAC / 2,4 kVA	24 VDC / 5 kW 48 VDC / 15 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M75 DC_750V	750 VDC	3AC 415 VAC / 55 kVA 1AC 230 VAC / 5 kVA	24 VDC / 5 kW 48 VDC / 20 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M75 DC_1500V	1500 VDC	3AC 400 VAC / 54 kVA	110 VDC / 20 kW 110 VDC / 3 kW	Underframe IP65	Air forced cooled With galvanic isolation High power density
BORDLINE® M80 DC_750V	750 VDC	3AC 400 VAC / 65 kVA	24 VDC / 10 kW 110 VDC / bidir. 15/19 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M80 AC_1000V	1000 VAC - 16.7 Hz	3AC 400 VAC / 40 kVA 3AC 0.. 345 VAC / 20 kVA	36 VDC / 10 kW	On board IP54	Air forced cooled With galvanic isolation



BORDLINE® M50 DC_1500V



BORDLINE® M75 DC_600V



BORDLINE® M75 DC_1500V

BORDLINE® M

Auxiliary Converters and Battery Chargers

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Product Name	Input Voltage	Output AC	Output DC	Mounting	Special features
BORDLINE® M90 DC_750/1500V	750 VDC 1500 VDC	3AC 480 VAC / 74 kVA 3AC 400 VAC / 6 kVA 1AC 120 VAC / 10 kVA	36 VDC / 10 kW	Roof IP65	Air forced cooled With galvanic isolation
BORDLINE® M90 DC_3000V	3000 VDC	3AC 400 VAC / 50 kVA 3AC 400 VAC / 50 kVA	24 VDC / 12,6 kW	Roof IP65	Air forced cooled With galvanic isolation
BORDLINE® M130 AC_1000V	1000 VAC - 16.7 Hz	3AC 415 VAC / 130 kVA	-	On board IP54	Air forced cooled With galvanic isolation
BORDLINE® M170 DC_1500V	1500 VDC	3AC 400 VAC / 170 kVA	110 VDC / 27 kW	Underframe IP65	Air forced cooled With galvanic isolation
BORDLINE® M180 AC_415V	3AC 415 VAC	3AC 415 VAC / 180 kVA	110 VDC / 2 kW	On board IP55	Air forced cooled With galvanic isolation
BORDLINE® M200_DC_3kW	3000 VDC	-	650 VDC / 200 kW	Roof IP65	Liquid cooled With galvanic isolation Bi directional
BORDLINE® M230 DC_1500V	1500 VDC	3AC 400 VAC / 245 kVA	110 VDC / 35 kW	Underframe IP65	Liquid cooled With galvanic isolation
BORDLINE® M260 DC_1500-3kV	1500 VDC 3000 VDC	3AC 450 VAC / 80 kVA 3AC 150...450 VAC / 60 kVA	31,4 VDC / 10kW 31,4 VDC / 10kW	On board IP20	Liquid cooled With galvanic isolation
BORDLINE® M260 AC_1000V	1000 VAC - 16.7 Hz	3AC 415 VAC / 260 kVA	-	On board IP54	Air forced cooled With galvanic isolation
BORDLINE® M500 MS	3000 VDC 3000 VAC	3AC 400 VAC / 500 kVA	-	On board	Liquid cooled
BORDLINE® M500 AC_960V	960 VAC	3AC 750 VAC / 500 kVA	-	On board	Liquid cooled



BORDLINE® M90 DC_750/1500V



BORDLINE® M90 DC_3000V



BORDLINE® M200_DC_3kW

BORDLINE® BC

Battery Chargers

Product catalogue 2021

Name of Datasheet	Input Voltage	Output DC	N. of modules	Mounting	Special Feature
BORDLINE® BC	3AC 400 VAC 3AC 480 VAC	24 VDC / 6,4 kW	1	On board IP20	Air forced cooled CANOpen or CAN J1939 or Ethernet interface Modular approach (up to 4 units in parallel)
BORDLINE® BC	3AC 400 VAC 3AC 480 VAC	36 VDC / 10 kW	1	On board IP20	Air forced cooled CANOpen or CAN J1939 or Ethernet interface Modular approach (up to 4 units in parallel)
BORDLINE® BC	3AC 400 VAC 3AC 480 VAC	72 VDC / 6,4 kW	1	On board IP20	Air forced cooled CANOpen or CAN J1939 or Ethernet interface Modular approach (up to 4 units in parallel)
BORDLINE® BC	3AC 400 VAC 3AC 480 VAC	110 VDC / 10 kW	1	On board IP20	Air forced cooled CANOpen or CAN J1939 or Ethernet interface Modular approach (up to 4 units in parallel)
BORDLINE® BC_24V	3AC 400 VAC	24 VDC / 17 kW	3	On board IP20	Air forced cooled Redundant MVB interface Redundant BC
BORDLINE® BC_24V	3AC 400 VAC 3AC 480 VAC	24 VDC / 12,7 kW	2	On board IP20	Air forced cooled CANOpen interface Redundant BC
BORDLINE® BC_36V	3AC 400 VAC	36 VDC / 8 kW	2	Roof IP65	Air forced cooled CANOpen interface Redundant BC
BORDLINE® BC_110V	3AC 400 VAC	110 VDC / 14 kW	2	On board IP20	Air forced cooled CANOpen interface Redundant BC
BORDLINE® BC_110V	3AC 400 VAC	110 VDC / 19 kW	2	Underframe IP65	Air forced cooled Ethernet CIP interface Redundant BC
BORDLINE® BC_110V	3AC 400 VAC	110 VDC / 38 kW	6	Underframe IP65	Air forced cooled Ethernet TRDP interface Redundant BC



BORDLINE® BC



BORDLINE® BC_24V



BORDLINE® BC_110V



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