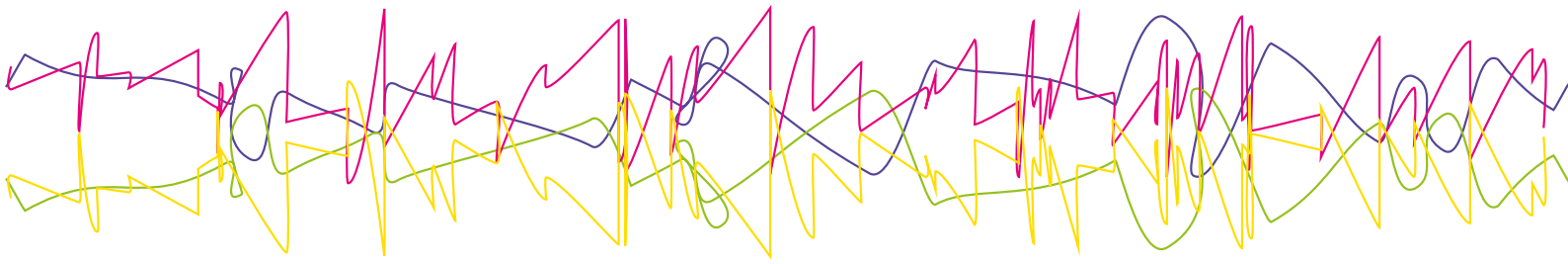
Specification of the MACC 2 plus

Accuracy makes the difference



Main characteristics	
Rated input current (I_{PN})	±600 A (±850 A peak)
Output transfer ratio	0.6 A at I_{PN}
Output load	0 … 7 Ω (Burden resistor at I_{PN})
Output max.	±1.0 A
Small signal bandwidth (5% of I_{PN})	800 kHz (-3 dB)
Output offset error at 23°C (related to I_{PN})	< 5 ppm (delivery figure, adjustable at site)
Offset drift (TC)	< 0.15 ppm/K
Offset error versus time	< 0.3 ppm/month
Offset error versus supply voltage	< 0.15 ppm/V
Linearity error (related to actual I_{OUT})	< 3.3 ppm
Output error versus ext.magn. Field (< 5mT)	< 5 ppm/mT (AC and DC field)
Output noise (BW= 10kHz)	< 0.8 μA_{pp}
Induced voltage into a 1-turn primary busbar	< 300 μV_{pp}
General data	
Supply voltage	±14 V ... ±15.5 V
Power consumption at I_{PN}	9.5 W (Rb = 0 Ω)
Polarity protection	No
Output Valid indicator (lit at normal operation)	LED (pure green)
Output Valid contact (closed at normal operation)	PhotoMOS relais, R_{ON} = 0.8 Ω,
	I_{MAX} = 200 mA, V_{MAX} = 40 Vp
Ambient operating temperature	0 … +40 °C
Relative Humidity	20 … 80 % (Non condensing)
Ambient storage temperature	-40 … +75 °C
Relative Humidity	20 … 80 % (Non condensing)
Pollution degree	2

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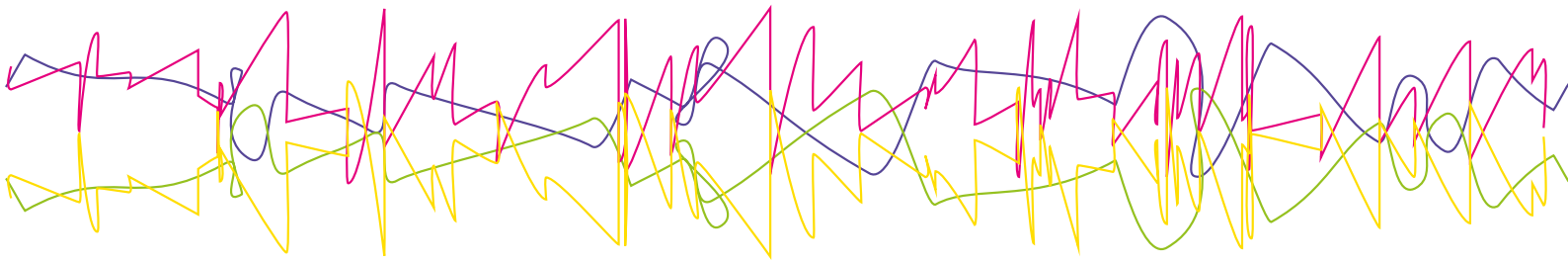

Housing	
Dimensions (H x W x D)	110 x 82 x 43 mm, incl. isolator 67 mm.
Material	
Housing	Aluminium
Primary isolator	POM-C
Weight	< 700 gram
Safety	
Protection Class	III (IEC 60 950-1, Supplied by external SELV power source)
Protection degree	
Terminals	IP20 (Test finger, EN 60 529)
Housing	IP40 (Test finger, EN 60 529)
Flammability class acc. UL94	V-0
Isolation characteristics	
Creepage distance	12 mm (between primary busbar and housing)
Clearance distance	12 mm (between primary busbar and housing)
CTI	600 (primary isolator)
Isolation test voltage	
Prim.busbar to output	5 kV / 50 Hz, 1 min (IEC61010-1)
Electronics to housing	500 Vdc
Impuls voltage (surge)	
Prim.busbar to output	5kV 1.2/50 µs

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