

MT551 – Technical Data

General	
Power supply	85 ... 265 V, 47 ... 63 Hz
Power consumption	max. 500 VA
Temperature range, operation	-10° ... + 50° C
Temperature range, storage	-15° ... + 65° C
Relative humidity (not condensing)	max. 95 %
Dimensions (LxWxH)	206 x 524 x 428 mm
Weight	~ 21.2 kg
Safety	
IP class according to DIN EN 60529	IP40
Declaration of conformity	CE conform
Protection class according to DIN EN 61140	I
Source data	
Voltage min. max. 22)	20 V ... 500 V
Voltage range(s)	60 V, 125 V, 250 V, 420 V
Voltage max. output power 8)	30 VA
Voltage distortion 3)	< 0.5 %
Voltage resolution	5 digits
Voltage accuracy 3)	< 0.2 %
Voltage stability 9)	< 0.02 %
Voltage long term stability 2) 3)	< 0.02 %
Voltage load dependence 26)	< 0.02 %
Voltage harmonic setting range 10) 14) 15)	2. ... 40.
Voltage harmonic amplitude 10) 14)	max. 40 % @ 2. - 10. max. 30 % @ 11. - 20. max. 20 % @ 21. - 30. max. 10 % @ 31. - 40.
Current min. max.	1 mA ... 120 A
Current range(s)	100 A, 50 A, 20 A, 10 A, 5 A, 2 A, 1 A, 500 mA, 200 mA, 100 mA, 50 mA, 20 mA
Current max. voltage per range	600 mV (100 A .. 20 A) 5 V (10 A) 8 V (5 A .. 20 mA)
Current max. output power 8)	60 VA
Current distortion 4)	< 0.5 %
Current setting resolution	5 digits
Current accuracy 4)	< 0.2 %
Current stability 9)	< 0.02 %
Current long term stability 2) 4)	< 0.02 %
Current load dependence 26)	< 0.02 %
Current harmonic setting range 10) 14) 15)	2. ... 40.
Current harmonic amplitude 10) 14)	max. 40 % @ 2. - 10. max. 30 % @ 11. - 20. max. 20 % @ 21. - 30. max. 10 % @ 31. - 40.
Frequency range	45 ... 65 Hz
Frequency accuracy	0.01 Hz
Frequency setting accuracy	0.01 Hz
Phase angle setting range	0.00 ... 359.99°
Phase angle setting resolution	0.01°
Phase angle accuracy	< 0.015°
Phase angle stability 9)	< 0.01°

2: Stability over 1year (every month one measurement over one hour)

3: From 30 V ... 500 V

4: From 10 mA ... 120 A

8: Related of end of maximum range and end of range and ohmic load

9: Stability over 1hour (measurement with $t_i = 10$ s)

10: Depending on the selected option

14: Every harmonic (related to fundamental)

15: Total of harmonics max.40 %

22: At $f < 49.5$ Hz, $U_{max} = 420$ V

26: Only with activated RMS control

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Subjects to alteration.

MT551_SPECS_EXT_GB_V400