

MasterTig

FAR FROM THE ORDINARY



18.05.2024



Designed for welders



TECHNICAL SPECIFICATIONS

POWER SOURCES 235

MasterTig 235ACDC GM

Connection voltage 1~ 50/60 Hz	110 / 220...240 V ±10 %
Fuse	16 A
Stick electrode sizes	1.6...5.0 mm
Recommended generator power (min)	8 kVA
Open circuit voltage (average)	50 V
External dimensions LxWxH	544 x 205 x 443 mm
Weight (no accessories)	19.1 kg
Degree of protection	IP23S
Standards	IEC 60974-1,-3,-10 IEC 61000-3-12 GB 15579.1
EMC class	A
Operating temperature range	-20...+40 °C
Rated maximum output at 40 °C (240 V) 40 % TIG	230 A / 19.2 V
Rated maximum output at 40 °C (240 V) 60 % TIG	200 A / 18 V
Rated maximum output at 40 °C (240 V) 100 % TIG	170 A / 16.8 V
Rated maximum output at 40 °C (240 V) 37 % MMA	180 A / 27.2 V
Rated maximum output at 40 °C (240 V) 60 % MMA	150 A / 26 V
Rated maximum output at 40 °C (240 V) 100 % MMA	120 A / 24.8 V
Rated maximum output at 40 °C (110 V) 40 % TIG	130 A / 15.2 V
Rated maximum output at 40 °C (110 V) 60 % TIG	120 A / 14.8 V
Rated maximum output at 40 °C (110 V) 100 % TIG	90 A / 13.6 V
Rated maximum output at 40 °C (110 V) 40 % MMA	85 A / 23.4 V
Rated maximum output at 40 °C (110 V) 60 % MMA	75 A / 23 V
Rated maximum output at 40 °C (110 V) 100 % MMA	55 A / 22.2 V
Range of output (110 V) TIG	3 A / 1 V ... 130 A / 24 V
Range of output (240 V) TIG	3 A / 1 V ... 230 A / 31 V
Range of output (110 V) MMA	10 A / 1 V ... 85 A / 35 V
Range of output (240 V) MMA	10 A / 10 V ... 180 A / 40 V



POWER SOURCES

MasterTig 325DC

MasterTig 325DC G

MasterTig 325DC GM

Connection voltage 3~ 50/60 Hz	380 ... 460 V ±10 %	380 ... 460 V ±10 %	220 ... 230 V; 380 ... 460 V ±10 %
Fuse	16 A	16 A	20 A
Stick electrode sizes	1.6 ... 6.0 mm	1.6 ... 6.0 mm	1.6 ... 6.0 mm
Recommended generator power (min)	20 kVA	20 kVA	20 kVA
Open circuit voltage (average)	50 V	50 V	50 V
External dimensions LxWxH	544 x 205 x 443 mm	544 x 205 x 443 mm	544 x 205 x 443 mm
Weight (no accessories)	21 kg	21.5 kg	21.5 kg
Degree of protection	IP23S	IP23S	IP23S
Standards	IEC 60974-1,-3,-10 IEC 61000-3-12 GB 15579.1	IEC 60974-1,-3,-10 IEC 61000-3-12 GB 15579.1	IEC 60974-1,-3,-10 IEC 61000-3-12 GB 15579.1
EMC class	A	A	A
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C	-20 ... +40 °C
Rated maximum output at 40 °C (40 % TIG)	300 A / 22 V	300 A / 22 V	300 A / 22 V
Rated maximum output at 40 °C (60 % TIG)	230 A / 19.2 V	230 A / 19.2 V	230 A / 19.2 V
Rated maximum output at 40 °C (100 % TIG)	190 A / 17.6 V	190 A / 17.6 V	190 A / 17.6 V
Rated maximum output at 40 °C (40 % MMA)	250 A / 30 V	250 A / 30 V	250 A / 30 V
Rated maximum output at 40 °C (60 % MMA)	230 A / 29.2 V	230 A / 29.2 V	230 A / 29.2 V
Rated maximum output at 40 °C (100 % MMA)	190 A / 27.6 V	190 A / 27.6 V	190 A / 27.6 V
Range of output TIG	3 A / 1 V ... 300 A / 38 V	3 A / 1 V ... 300 A / 38 V	3 A / 1 V ... 300 A / 27 V (@ 220 V)
Range of output MMA	10 A / 10 V ... 250 A / 39 V	10 A / 10 V ... 250 A / 39 V	10 A / 10 V ... 250 A / 32 V (@ 220 V)



POWER SOURCES

MasterTig 335ACDC

MasterTig 335ACDC G

MasterTig 335ACDC GM

Connection voltage 3~ 50/60 Hz	380 ... 460 V ±10 %	380 ... 460 V ±10 %	220 ... 230 V; 380 ... 460 V ±10 %
Fuse	16 A	16 A	20 A
Stick electrode sizes	1.6 ... 6.0 mm	1.6 ... 6.0 mm	1.6 ... 6.0 mm
Recommended generator power (min)	20 kVA	20 kVA	20 kVA
Open circuit voltage (average)	50 V	50 V	50 V
External dimensions LxWxH	544 x 205 x 443 mm	544 x 205 x 443 mm	544 x 205 x 443 mm
Weight (no accessories)	22 kg	22.5 kg	22.5 kg
Degree of protection	IP23S	IP23S	IP23S
Standards	IEC 60974-1,-3,-10 IEC 61000-3-12 GB 15579.1	IEC 60974-1,-3,-10 IEC 61000-3-12 GB 15579.1	IEC 60974-1,-3,-10 IEC 61000-3-12 GB 15579.1
EMC class	A	A	A
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C	-20 ... +40 °C
Rated maximum output at 40 °C (40 % TIG)	300 A / 22 V	300 A / 22 V	300 A / 22 V
Rated maximum output at 40 °C (60 % TIG)	230 A / 19.2 V	230 A / 19.2 V	230 A / 19.2 V
Rated maximum output at 40 °C (100 % TIG)	190 A / 17.6 V	190 A / 17.6 V	190 A / 17.6 V
Rated maximum output at 40 °C (40 % MMA)	250 A / 30 V	250 A / 30 V	250 A / 30 V
Rated maximum output at 40 °C (60 % MMA)	230 A / 29.2 V	230 A / 29.2 V	230 A / 29.2 V
Rated maximum output at 40 °C (100 % MMA)	190 A / 27.6 V	190 A / 27.6 V	190 A / 27.6 V
Range of output TIG	3 A / 1 V ... 300 A / 38 V	3 A / 1 V ... 300 A / 38 V	3 A / 1 V ... 300 A / 27 V (@ 220 V)
Range of output MMA	10 A / 10 V ... 250 A / 39 V	10 A / 10 V ... 250 A / 39 V	10 A / 10 V ... 250 A / 32 V (@ 220 V)



POWER SOURCES VRD LOCKED ON 235

MasterTig 235ACDC GM AU

Connection voltage 1~ 50/60 Hz	110 / 240 V $\pm$ 10 %
Fuse	15 A
Stick electrode sizes	1.6...5.0 mm
Recommended generator power (min)	8 kVA
Open circuit voltage (average)	23 V (locked to VRD)
External dimensions LxWxH	544 x 205 x 443 mm
Weight (no accessories)	19.1 kg
Degree of protection	IP23S
Standards	IEC 60974-1,-3,-10 IEC 61000-3-12 AS 60974.1-2006 GB 15579.1
EMC class	A
Operating temperature range	-20...+40 °C
Rated maximum output at 40 °C (240 V) 40 % TIG	230 A / 19.2 V
Rated maximum output at 40 °C (240 V) 60 % TIG	200 A / 18 V
Rated maximum output at 40 °C (240 V) 100 % TIG	170 A / 16.8 V
Rated maximum output at 40 °C (240 V) 37 % MMA	180 A / 27.2 V
Rated maximum output at 40 °C (240 V) 60 % MMA	150 A / 26 V
Rated maximum output at 40 °C (240 V) 100 % MMA	120 A / 24.8 V
Rated maximum output at 40 °C (110 V) 40 % TIG	130 A / 15.2 V
Rated maximum output at 40 °C (110 V) 60 % TIG	110 A / 14.4 V
Rated maximum output at 40 °C (110 V) 100 % TIG	90 A / 13.6 V
Rated maximum output at 40 °C (110 V) 40 % MMA	85 A / 23.4 V
Rated maximum output at 40 °C (110 V) 60 % MMA	75 A / 23 V
Rated maximum output at 40 °C (110 V) 100 % MMA	55 A / 22.2 V
Range of output (110 V) TIG	3 A / 1 V ... 130 A / 24 V
Range of output (240 V) TIG	3 A / 1 V ... 230 A / 31 V
Range of output (110 V) MMA	10 A / 1 V ... 85 A / 35 V
Range of output (240 V) MMA	10 A / 10 V ... 180 A / 40 V



POWER SOURCES VRD LOCKED ON

MasterTig 325DC G AU

MasterTig 335ACDC G AU

Connection voltage 3~ 50/60 Hz	380 ... 460 V ± 10 %	380 ... 460 V ± 10 %
Fuse	16 A	16 A
Stick electrode sizes	1.6 ... 6.0 mm	1.6 ... 6.0 mm
Recommended generator power (min)	20 kVA	20 kVA
Open circuit voltage (average)	23 V (locked to VRD)	50 V
External dimensions LxWxH	544 x 205 x 443 mm	544 x 205 x 443 mm
Weight (no accessories)	21.5 kg	22.5 kg
Degree of protection	IP23S	IP23S
Standards	IEC 60974-1,-3,-10 IEC 61000-3-12 AS 60974.1-2006 GB 15579.1	IEC 60974-1,-3,-10 IEC 61000-3-12 AS 60974.1-2006 GB 15579.1
EMC class	A	A
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C
Rated maximum output at 40 °C (40 % TIG)	300 A / 22 V	300 A / 22 V
Rated maximum output at 40 °C (60 % TIG)	230 A / 19.2 V	230 A / 19.2 V
Rated maximum output at 40 °C (100 % TIG)	190 A / 17.6 V	190 A / 17.6 V
Rated maximum output at 40 °C (40 % MMA)	250 A / 30 V	250 A / 30 V
Rated maximum output at 40 °C (60 % MMA)	230 A / 29.2 V	230 A / 29.2 V
Rated maximum output at 40 °C (100 % MMA)	190 A / 27.6 V	190 A / 27.6 V
Range of output TIG	3 A / 1 V ... 300 A / 38 V	3 A / 1 V ... 300 A / 38 V
Range of output MMA	10 A / 10 V ... 250 A / 39 V	10 A / 10 V ... 250 A / 39 V

ACCESSORIES

MasterTig Cooler M

Product code	MTC1KWM
Recommended coolant	MPG 4456 (Kemppi mixture)
Weight (no accessories)	12.5 kg
Tank volume	3.0 l
Operating temperature range	-20 ... +40 °C with recommended coolant

MasterTig Cooler MXL

Product code	MTC17KWMXL
Recommended coolant	MPG 4456 (Kemppi mixture)
Weight (no accessories)	25 kg
Tank volume	3.0 l
Cooling power	1,7 kW
Operating temperature range	-20 ... +40 °C with recommended coolant

MTP23X

Product code	MTP23X
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MTP33X

Product code	MTP33X
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MTP35X

Product code	MTP35X
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HR43

Product code	HR43
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HR45

Description	Wireless remote
Product code	HR45

FR43

Product code	FR43
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FR45

Product code	FR45
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P43MT

Description	Trolley
Product code	P43MT

T25MT

Description	Cart
Product code	T25MT

P45MT

Description	Transport unit
Product code	P45MT

X5 Gas Cylinder Cart

Product code	X5701020000
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Digital Connectivity Module

Product code	6265051
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Kemppi is the design leader in the arc welding industry. We are committed to boosting the quality and productivity of welding by continuous development of the welding arc and by working for a greener and more equal world. Kemppi supplies sustainable products, digital solutions, and services for professionals from industrial welding companies to single contractors. The usability and reliability of our products is our guiding principle. We operate with a highly skilled partner network covering over 70 countries to make its expertise locally available. Headquartered in Lahti, Finland, Kemppi employs close to 800 professionals in 16 countries and has a revenue of 195 MEUR in 2022.

