MasterTig

FAR FROM THE ORDINARY



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KEMPPI

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
Operating temperature range	-20...+40 °C
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
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
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C	-20 ... +40 °C
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
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
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C	-20 ... +40 °C
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
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 ±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)
Operating temperature range	-20...+40 °C
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
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
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C
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
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)
Operating temperature range	-20 ... +40 °C with recommended coolant
Weight (no accessories)	12.5 kg
Tank volume	3.0 l

MasterTig Cooler MXL

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

MTP23X

Product code	MTP23X

MTP33X

Product code	MTP33X

MTP35X

Product code	MTP35X

HR43

Product code	HR43

HR45

Description	Wireless remote
Product code	HR45

FR43

Product code	FR43

FR45

Product code	FR45

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

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.

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