

Master 315

EXTRA TO THE ORDINARY – OPTIMAL STICK WELDING
PERFORMANCE





TECHNICAL SPECIFICATIONS

Master 315 power sources

Master 315 G

Master 315 G AU

Master 315 GM

Product code	M315G	M315GAU	M315GM
Connection voltage 3~ 50/60 Hz	380...460 V ± 10 %	380...460 V ± 10 %	220...230 V ± 10 % 380...460 V ± 10 %
Fuse	16A-C	16A-C	16A-C
Stick electrode sizes	1.6...7.0 mm	1.6...7.0 mm	1.6...7.0 mm
Welding range (MMA)	10...300 A	10...300 A 10...300 A (400 V) 10...260 A (220 V)	
Welding range (TIG)	3...300 A	3...300 A	3...300 A (400 V) 3...260 A (220 V)
Power factor at 100 % ED	0.89	0.89	0.89 (400 V) 0.95 (220 V)
Max. welding voltage	63...89 Vdc	63...89 Vdc	38...60 Vdc
Recommended generator power (min)	20 kVA	20 kVA	20 kVA
Open circuit voltage (average)	50 V	23 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)	21.4 kg	21.4 kg	22.6 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, AS 60974.1-2006	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	280 A / 21.2 V (400 V) 260 A / 20.4 V (220 V)
Rated maximum output at 40 °C (60 % TIG)	260 A / 20.4 V	260 A / 20.4 V	260 A / 20.4 V (400 V) 230 A / 19.2 V (220 V)
Rated maximum output at 40 °C (100 % TIG)	220 A / 18.8 V	220 A / 18.8 V	220 A / 18.8 V (400 V) 175 A / 17.0 V (220 V)
Rated maximum output at 40 °C (30 % MMA)			300 A / 32.0 V (400 V) 260 A / 30.4 V (220 V)
Rated maximum output at 40 °C (40 % MMA)	300 A / 32 V	300 A / 32 V	280 A / 31.2 V (400 V) 260 A / 30.4 V (220 V)
Rated maximum output at 40 °C (60 % MMA)	260 A / 30.4 V	260 A / 30.4 V	260 A / 30.4 V (400 V) 230 A / 29.2 V (220 V)
Rated maximum output at 40 °C (100 % MMA)	220 A / 28.8 V	220 A / 28.8 V	220 A / 28.8 V (400 V) 175 A / 27.0 V (220 V)
Efficiency at 100 % ED	0.87	0.87	0.87 (400 V) 0.85 (220 V)



ACCESSORIES

TX 223GVD13

Product code	TX223GVD134 (4m)
Standards	IEC 60974-7
Type of cooling	Gas
Type of connection (Current-gas)	DIX 13 mm
Load capacity @ 40 % (Argon)	220 A
Load capacity @ 100 % (Argon)	-
Type of connection (Control)	-
Type of connection (Coolant)	-
Remote control	No
Neck type	70° angle

T25MT

Description	Cart
Product code	T25MT

P43MT

Description	Trolley
Product code	P43MT

P45MT

Description	Transport unit
Product code	P45MT

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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Earth return cable 35 mm², 5 m

Product code	6184311
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Earth return cable 50 mm², 5 m

Product code	6184511
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Welding cable 5 m 35 mm²

Product code	6184301
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Welding cable 5 m 50 mm²

Product code	6184501
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Electrode holders

Description	Electrode holders
Product code	Kemppi 300 – 9871021, Kemppi 400 – 9871031, Urania 5 – 9871041, Urania 6 – 9871051, Myking 200 – 9871060, Myking 450 – 9871070, Myking 600 – 9871080

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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.

