

MasterTig



TECHNICAL SPECIFICATIONS

POWER SOURCES 235

Connection voltage 1~ 50/60 Hz	110 / 220...240 V
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

POWER SOURCES 235

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	380 ... 460 V	220 ... 230 V; 380 ... 460 V
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	380 ... 460 V	220 ... 230 V; 380 ... 460 V
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

POWER SOURCES	MasterTig 335ACDC	MasterTig 335ACDC G	MasterTig 335ACDC GM
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

Connection voltage 1~ 50/60 Hz	110 / 240 V
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

POWER SOURCES VRD LOCKED ON 235

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	380 ... 460 V
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)	50 V	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