

MasterTig MLS 2300 / 3003 ACDC

MLS control for the finest TIG welding quality



+ In brief

- TIG and MMA process eg: DC-/DC+/AC/MIX TIG
- Power cost efficient, compact dimensions
- MasterCool option for high duty applications
- MicroTack for fast, low heat tack welding

+ Applications

- Metal fabrication workshops
- Shipyards and offshore industry
- Chemical and process industry
- Mechanised welding



Energy efficient

Key features

The best tools make demanding work easy. MasterTig MLS ACDC offers TIG welding professionals the necessary control to meet their exacting needs. Whatever the application, enjoy the performance. Model choice includes a 230A version with 1-phase 230V power supply, and 300A versions with 3-phase 400V or 230/460V power supply. MasterTig MLS ACDC is a precise aluminium welding specialist that suits all welded materials. Modular design allows you to build the package that best suits your needs.

Choose from either ACS or ACX control panels allowing fast adjustment of base parameters including: pre/post gas time, AC arc frequency and slope time values. ACS provides all necessary controls for DC, AC and MIX TIG welding with either HF or contact ignition. ACX offers additional functions including MicroTack, memory channels and pulsed welding function.



All MasterTig MLS ACDC welding devices can be equipped with an ACX or ACS control panel introducing numerous additional features that make welding easier and more efficient.

MasterTig MLS 2300 / 3003 ACDC

Technical specifications

MasterTig MLS		2300 ACDC	3003 ACDC
Connection voltage	50/60 Hz	1~, 230 V (±15 %)	3~, 230 V (-10 %)...460 V (+10 %)
Rated power at 100 % ED	TIG	5.7 kVA	9.2 kVA
	MMA	6.0 kVA	10 kVA
Connection cable	H07RN-F	3G2.5 (3.3 m)	4G2.5 (5 m)
Fuse recommendation (slow)		15 A	20/16 A
Output 40 °C	40 % ED TIG	230 A/19.2 V	300 A/22 V
	60 % ED TIG	200 A/18 V	230 A/19.2 V
	100 % ED TIG	170 A/16.8 V	190 A/17.6 V
	40 % ED MMA	180 A/27.2 V	250 A (230 V AC 30 %)/30 V
	60 % ED MMA	150 A/26 V	230 A/29.2 V
	100 % ED MMA	120 A/24.8 V	190 A/27.6 V
Welding range	TIG	3 A/10 V–230 A/19.2 V	3 A/10.0 V–300 A/22 V
	MMA	10 A/20.5 V/180 A/27.2 V	10 A/20.5 V–250 A/30 V
Open circuit voltage		58 V DC	58 V DC
	AU models	20 V DC/VRD	-
Power factor at 100% ED		0.99	0.95
Efficiency at 100% ED		82 %	81 %
Stick electrode, MMA	∅	1.5...4.0 mm	1.5...5.0 mm
External dimensions	L x W x H	430 x 180 x 390 mm	500 x 180 x 390 mm
Weight		15 kg	25 kg

Cooling unit		MasterCool 20	MasterCool 30
Connection voltage		230 V (±15 %)	24 V DC
Rated power at 100 % ED		50 W	50 W
Cooling power		1.0 kW	1.0 kW
Maximum pressure		400 kPa	400 kPa
Recommended cooling liquid		20...40 % ethanol/water	20...40 % ethanol/water
Tank volume		3 l	3 l
External dimensions	L x W x H	500 x 180 x 260 mm	500 x 180 x 260 mm
Weight		8 kg	8 kg

Ordering information

Power Sources	
MasterTig MLS 2300 ACDC	6162300
MasterTig MLS 2300 ACDC VRD AU	6162300AU
MasterTig MLS 3000 ACDC VRD	6163000VRD
MasterTig MLS 3003 ACDC	6163003
Cooling units	
MasterCool 20	6162900
MasterCool 30	6163900
Control panels	
ACS	6162805
ACX	6162804