



Master S 305 GM

MSS305GM

300 A stick welding power source suitable for generator and multi-voltage use. Equipped as standard with a full-color 7-inch TFT display. When connected to a Flexlite TX 223GVD13 torch, Master S 305 provides an excellent power source for quality DC TIG welding.

Technical data

Description	Value
Mains connection voltage	380...460 V ± 10 %
Mains connection voltage (MV low range)	220...230 V ± 10 %
Mains connection phases	3~50/60 Hz
Mains connection cable type	4G, H07RN-F
Mains connection cable size	2.5 mm ²
Maximum supply current [I _{lmax}]	18 ... 15 A
Maximum supply current (@MV low range) [I _{lmax}]	27 ... 25 A

Description	Value
Effective supply current [I_{1eff}]	12 ... 10 A
Effective supply current (@MV low range) [I_{1eff}]	16 ... 15 A
Rated maximum input power [S_{1max}]	12 kVA
Mains fuse	16 A
Output, duty cycle % at rated max. current, TIG	30 %
Output at +40 °C, rated max current, TIG	300 A
Output at +40 °C, 60% TIG	260 A
Output at +40 °C, 100% TIG	220 A
Output, duty cycle % at rated max. current, MMA	30 %
Output at +40 °C, rated max current, MMA	300 A
Output at +40 °C, 60% MMA	260 A
Output at +40 °C, 100% MMA	220 A
Output at +40 °C, rated max current, TIG (@MV low range)	260 A
Output at +40 °C, 60% TIG (@MV low range)	230 A
Output at +40 °C, 100% TIG (@MV low range)	175 A
Output, duty cycle % at rated max. current, MMA (@MV low range)	40 %
Output at +40 °C, rated max current, MMA (@MV low range)	260 A
Output at +40 °C, 60% MMA (@MV low range)	230 A
Output at +40 °C, 100% MMA (@MV low range)	175 A
Output range, TIG	3 A / 1 V ... 300 A / 22 V
Output range, MMA	10 A / 10 V ... 300 A / 63 V
Output range, TIG (@MV low range)	3 A / 1 V ... 260 A / 21 V
Output range, MMA (@MV low range)	10 A / 10 V ... 260 A / 39 V
Power factor at rated maximum current [λ]	0.89
Efficiency at rated maximum current [η]	87 %
EMC class	A
Minimum short-circuit power of supply network [S_{sc}]	2.1 MVA
Stick electrode diameter	1.6 ... 7 mm
Welding connection type	DIX
Wired communication type	Analog, Kemppi Remote-Bus
Wireless communication type	Bluetooth
Transmitter frequency and power	2400...2483.5 MHz, 10 dBm

Description	Value
Operating temperature	-20 ... 40 °C
Storage temperature	-40 ... 60 °C
Recommended minimum generator power [Sgen]	20 kVA
Degree of protection (fully installed)	IP23
External dimensions, length	544 mm
External dimensions, width	205 mm
External dimensions, height	443 mm
Weight without accessories	22.6 kg
Standards	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1