



Minarc T 223 DC GM

MIT223DCGM

Professional and portable multi-voltage 110/230V welding power source for DC TIG welding. The power source can be used with a generator and includes four memory channels, remote control options, and MMA. Minarc T 223 DC offers 220 A @ 20% duty cycle from a 1-phase mains supply and weighs 9.6kg. A 4 or 8-meter Flexlite TX welding torch, cable set, and carrying strap are included in the package.

Technical data

Description	Value
Mains connection voltage	220...240 V ± 10 %
Mains connection voltage (MV low range)	110...120 V ± 10 %
Mains connection phases	1~50/60 Hz
Mains connection cable type	3G, H07RN-F
Mains connection cable size	2.5 mm ²
Maximum supply current [I _{lmax}]	25 A
Maximum supply current (@MV low range) [I _{lmax}]	23 A

Description	Value
Effective supply current [I_{leff}]	16 A
Effective supply current (@MV low range) [I_{leff}]	15 A
Rated maximum input power [$S_{1\text{max}}$]	5.5 kVA
Mains fuse	16 A
Mains fuse (@MV low range)	16 A
No-load voltage (MMA/TIG) [U_0]	107 V
No-load voltage (MMA) [U_r]	95 V
No-load voltage (MMA) VRD [U_r VRD]	23 V
Open circuit voltage (MMA) [U_{av}]	95 V
Idle power	10 W
Output, duty cycle % at rated max. current, TIG	20 %
Output at +40 °C, rated max current, TIG	220 A
Output at +40 °C, 60% TIG	170 A
Output at +40 °C, 100% TIG	140 A
Output, duty cycle % at rated max. current, MMA	25 %
Output at +40 °C, rated max current, MMA	170 A
Output at +40 °C, 60% MMA	140 A
Output at +40 °C, 100% MMA	120 A
Output, duty cycle % at rated max. current, TIG (@MV low range)	20 %
Output at +40 °C, rated max current, TIG (@MV low range)	130 A
Output at +40 °C, 60% TIG (@MV low range)	110 A
Output at +40 °C, 100% TIG (@MV low range)	90 A
Output, duty cycle % at rated max. current, MMA (@MV low range)	20 %
Output at +40 °C, rated max current, MMA (@MV low range)	75 A
Output at +40 °C, 60% MMA (@MV low range)	70 A
Output at +40 °C, 100% MMA (@MV low range)	60 A
Output range, TIG	5 A / 8 V ... 220 A / 20 V
Output range, MMA	15 A / 15 V ... 170 A / 34 V
Output range, TIG (@MV low range)	5 A / 8 V ... 130 A / 16 V
Output range, MMA (@MV low range)	15 A / 15 V ... 75 A / 31 V
Power factor at rated maximum current [λ]	1
Efficiency at rated maximum current [η]	85 %

Description	Value
EMC class	A
Stick electrode diameter	1.6 mm...4 mm
Welding connection type	R1/4
Wired communication type	Analog
Arc striking voltage	11 kV
Operating temperature	-20 °C...40 °C
Storage temperature	-40 °C...60 °C
Recommended minimum generator power [Sgen]	8 kVA
Degree of protection (fully installed)	IP23
External dimensions, length	461 mm
External dimensions, width	202 mm
External dimensions, height	367 mm
Weight without accessories	9.6 kg
Standards	EN IEC 60974-1, -3, -10, IEC 61000-3-12