Preliminary

Electrical characteristics **CORE 185 TIG**			U.M.
Power supply voltage U1 (50/60 Hz)	1x115 (±15%)	1x230 (±15%)	Vac
Zmax (@PCC) *	658	658	mΩ
Slow blow line fuse (MMA)	30	30	A
Slow blow line fuse (TIG)	30	30	A
Maximum input power (MMA)	3.10	6.21	kVA
Maximum input power (MMA)	2.68	5.10	kW
Maximum input power (TIG)	2.70	3.96	kVA
Maximum input power (TIG)	2.20	3.21	kW
Power consumption in standby	10	20	W
Power factor (PF) (MMA)	0.99	0.99	
Power factor (PF) (TIG)	0.99	0.99	
Efficiency (μ) (MMA)	87.3	83.0	%
Efficiency (μ) (TIG)	82.0	82.2	%
Cos φ	0.99	0.99	
Max. input current I1max (MMA)	27	27	A
Max. input current I1max (TIG)	23.5	17.2	A
Effective current I1eff (MMA)	13.5	13.5	A
Adjustment range (MMA)	20-110	20-185	A
Adjustment range (TIG)	5-140	5-185	A
Open circuit voltage (MMA)	76	76	Vdc
Open circuit voltage (TIG)	76	76	Vdc
Open circuit voltage Ur (MMA)	15	15	Vdc
Open circuit voltage Ur (TIG)	15	15	Vdc
Peak voltage Up (TIG)	10.1	10.1	kV

Open circuit voltage: Upon initial system startup or after waking up from idle, the open-circuit voltage should be expected to be approximately 10 Vdc lower than the expected value.

The operating value will be reached after the first arc ignition.

Duty cycle **CORE 185 TIG**	1x115	1x230	U.M.
Duty cycle TIG (40°C)			
(X=25%)	140	185	A
(X=60%)	90	120	A
(X=100%)	70	93	A
Duty cycle MMA (40°C)			
(X=25%)	110	185	A
(X=60%)	71	120	A
(X=100%)	55	93	A

Physical characteristics **CORE 185 TIG**		U.M.
IP Protection rating	IP23S	
Insulation class	H	
Dimensions (lxdxh)	429x172x316	mm
Weight	10.3	Kg
Power supply cable section	3x2.5	mm^2
Length of power supply cable	3	m
Power plug type	16A 250V Type F	
Air flow	yes	
Manufacturing Standards	EN IEC 60974-1/A1:2019 EN IEC 60974-3:2019 EN 60974-10/A1:2015	

** This equipment conforms to the requirements of EN / IEC 61000-3-11 provided maximum permissible mains impedance at the point of interface with the public grid (point of common coupling, PCC) is below or equal to the declared Zmax value. If it is connected to a public low voltage system, it is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment may be connected.*

** This equipment complies with EN / IEC 61000-3-12.*