



# TruPlasma DC Series 4000 (G2)

Technical data



**TruPlasma DC 4010  
(G2)****TruPlasma DC 4020  
(G2)****TruPlasma DC 4040  
(G2)****OUTPUT**

RATED POWER	10 kW	20 kW	40 kW
MAXIMUM OUTPUT CURRENT	33 A eff	67 A eff	133 A eff
MAXIMUM OUTPUT VOLTAGE	1200 V eff	1200 V eff	1200 V eff
NOMINAL OPERATING FREQUENCY	0 kHz - 100 kHz	0 kHz - 100 kHz	0 kHz - 100 kHz

**ARC PARAMETER**

MAXIMUM ARC RATE	20000 1/s	20000 1/s	20000 1/s
ARC ENERGY	<0.3 mJ/kW	<0.3 mJ/kW	<0.3 mJ/kW
ARC HANDLING TIME	<0.1 µs	<0.1 µs	<0.1 µs

**IGNITION VOLTAGES**

WITH AUXILIARY IGNITION	1750 V	1750 V	1750 V
WITHOUT AUXILIARY IGNITION	1250 V	1250 V	1250 V

**NETWORK CONNECTION DATA**

LINE VOLTAGE	3x 360 V - 528 V	3x 360 V - 528 V	3x 360 V - 528 V
LINE FREQUENCY	50 Hz - 60 Hz	50 Hz - 60 Hz	50 Hz - 60 Hz

**COMMUNICATION INTERFACES**

ANALOG/DIGITAL	Yes	Yes	Yes
RS 232 / RS 485	Yes	Yes	Yes
PROFIBUS	Yes	Yes	Yes
ETHERCAT	No	No	No
DEVICENET	Yes	Yes	Yes

**HOUSING**

WEIGHT	65 kg	75 kg	150 kg
IP PROTECTION CLASS	40	40	40

**COOLING REQUIREMENTS**

COOLANT	Water	Water	Water
MAX. WATER PRESSURE	7 bar	7 bar	7 bar
MIN. PRESSURE DIFFERENCE	3 bar	3 bar	3 bar
MIN. FLOW RATE	8 l/min	8 l/min	16 l/min
COOLING MEDIUM TEMPERATURE	20 °C - 35 °C	20 °C - 35 °C	20 °C - 35 °C

**DC CONNECTION DATA**

NUMBER OF TERMINALS	3	3	3
NOMINAL CURRENT / TERMINAL	25 A	45 A	85 A

**GENERAL**

OVERALL EFFICIENCY	90 %	90 %	90 %
CERTIFICATES / STANDARDS	CE	CE	CE

**AMBIENT CONDITIONS**

OUTSIDE TEMPERATURE	5 °C - 45 °C	5 °C - 45 °C	5 °C - 45 °C
HUMIDITY	5 % - 85 %	5 % - 85 %	5 % - 85 %

BAROMETRIC PRESSURE

**TruPlasma DC 4010  
(G2)**

86 kPa - 106 kPa

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86 kPa - 106 kPa

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(G2)**

86 kPa - 106 kPa