



TruPlasma DC Series 4000 (G2)

Technical data



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

RATED OUTPUT	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 TREATMENT TIME	<0.1 µs	<0.1 µs	<0.1 µs

IGNITION VOLTAGE

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 DIFFERENTIAL	3 bar	3 bar	3 bar
MIN. FLOW RATE	8 l/min	8 l/min	16 l/min
COOLANT TEMPERATURE	20 °C - 35 °C	20 °C - 35 °C	20 °C - 35 °C

DC CONNECTION DATA

NUMBER OF THE 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

**TruPlasma DC 4020
(G2)**

86 kPa - 106 kPa

**TruPlasma DC 4040
(G2)**

86 kPa - 106 kPa