



TruPlasma DC Series 3000 (G2)

Technical data



**TruPlasma DC 3020
(G2)****TruPlasma DC 3030
(G2)****TruPlasma DC 3040
(G2)****OUTPUT**

RATED OUTPUT	20 kW	30 kW	40 kW
MAXIMUM OUTPUT CURRENT	50 A eff	75 A eff	100 A eff
MAXIMUM OUTPUT VOLTAGE	1000 V eff	1000 V eff	1000 V eff

ARC PARAMETER

MAXIMUM ARC RATE	8000 1/s	8000 1/s	8000 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	1500 V	1500 V	1500 V
WITHOUT AUXILIARY IGNITION	1000 V	1000 V	1000 V

NETWORK CONNECTION DATA

LINE VOLTAGE	(±10%) 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	Yes	Yes	Yes
DEVICENET	Yes	Yes	Yes

HOUSING

WEIGHT	45 kg	65 kg	65 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	1.5 bar	1.5 bar	1.5 bar
MIN. FLOW RATE	4 l/min	8 l/min	8 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	35 A	53 A	53 A

GENERAL

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

AMBIENT CONDITIONS

OUTSIDE TEMPERATURE	5 °C	5 °C - 45 °C	5 °C - 45 °C
HUMIDITY	5 % - 85 %	5 % - 85 %	5 % - 85 %
BAROMETRIC PRESSURE	860 kPa - 1060 kPa	860 kPa - 1060 kPa	860 kPa - 1060 kPa

**TruPlasma DC 3060
(G2)****TruPlasma DC 3080
(G2)****TruPlasma DC 3120
(G2)****OUTPUT**

RATED OUTPUT	60 W	-	-
MAXIMUM OUTPUT CURRENT	150 A eff	-	-
MAXIMUM OUTPUT VOLTAGE	1000 V eff	-	-

ARC PARAMETER

MAXIMUM ARC RATE	8000 1/s	-	-
ARC ENERGY	<0.3 mJ/kW	-	-
ARC TREATMENT TIME	<0.1 μ s	-	-

IGNITION VOLTAGE

WITH AUXILIARY IGNITION	1500 V	-	-
WITHOUT AUXILIARY IGNITION	1000 V	-	-

NETWORK CONNECTION DATA

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

COMMUNICATION INTERFACES

ANALOG/DIGITAL	-	-	-
RS 232 / RS 485	-	-	-
PROFIBUS	-	-	-
ETHERCAT	-	-	-
DEVICENET	-	-	-

HOUSING

WEIGHT	-	-	-
IP PROTECTION CLASS	-	-	-

COOLING REQUIREMENTS

COOLANT	-	-	-
MAX. WATER PRESSURE	-	-	-
MIN. PRESSURE DIFFERENTIAL	-	-	-
MIN. FLOW RATE	-	-	-
COOLANT TEMPERATURE	-	-	-

DC CONNECTION DATA

NUMBER OF THE TERMINALS	-	-	-
NOMINAL CURRENT / TERMINAL	-	-	-

GENERAL

OVERALL EFFICIENCY	-	-	-
CERTIFICATES / STANDARDS	-	-	-

AMBIENT CONDITIONS

OUTSIDE TEMPERATURE	-	-	-
HUMIDITY	-	-	-
BAROMETRIC PRESSURE	-	-	-

TruPlasma DC 3160 (G2)

OUTPUT

RATED OUTPUT	-
MAXIMUM OUTPUT CURRENT	-
MAXIMUM OUTPUT VOLTAGE	-

ARC PARAMETER

MAXIMUM ARC RATE	-
ARC ENERGY	-
ARC TREATMENT TIME	-

IGNITION VOLTAGE

WITH AUXILIARY IGNITION	-
WITHOUT AUXILIARY IGNITION	-

NETWORK CONNECTION DATA

LINE VOLTAGE	-
LINE FREQUENCY	-

COMMUNICATION INTERFACES

ANALOG/DIGITAL	-
RS 232 / RS 485	-
PROFIBUS	-
ETHERCAT	-
DEVICENET	-

HOUSING

WEIGHT	-
IP PROTECTION CLASS	-

COOLING REQUIREMENTS

COOLANT	-
MAX. WATER PRESSURE	-
MIN. PRESSURE DIFFERENTIAL	-
MIN. FLOW RATE	-
COOLANT TEMPERATURE	-

DC CONNECTION DATA

NUMBER OF THE TERMINALS	-
NOMINAL CURRENT / TERMINAL	-

GENERAL

OVERALL EFFICIENCY	-
CERTIFICATES / STANDARDS	-

AMBIENT CONDITIONS

OUTSIDE TEMPERATURE	-
HUMIDITY	-
BAROMETRIC PRESSURE	-