



# 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 $\mu$ 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	-