



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