



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 | - |