



TruPlasma MF Series 7000 (G2)

Technical data



**TruPlasma MF 7050
(G2) UltraFast****TruPlasma MF 7075
(G2) UltraFast****TruPlasma MF 7100
(G2) UltraFast****OUTPUT**

RATED POWER	50 kW	75 kW	100 kW
MAXIMUM OUTPUT CURRENT	110 A eff	200 A eff	225 A eff
MAXIMUM OUTPUT VOLTAGE	1100 V eff	1100 V eff	1100 V eff
NOMINAL OPERATING FREQUENCY	20 kHz - 50 kHz	20 kHz - 50 kHz	20 kHz - 50 kHz

ARC PARAMETER

MAXIMUM ARC RATE	8000 1/s	8000 1/s	8000 1/s
ARC ENERGY	1 mJ/kW	1 mJ/kW	1 mJ/kW
ARC TREATMENT TIME	25 µs	25 µs	25 µs

IGNITION VOLTAGES

WITH AUXILIARY IGNITION	3100 V	3100 V	3100 V
WITHOUT AUXILIARY IGNITION	790 V	790 V	790 V

NETWORK CONNECTION DATA

LINE VOLTAGE	(±10%) 380 V - 480 V	(±10%) 380 V - 480 V	(±10%) 380 V - 480 V
LINE FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz
LINE INPUT POWER	61 kVA	93 kVA	124 kVA
POWER FACTOR	0.95	0.95	0.95

HOUSING

WEIGHT	560 kg	610 kg	610 kg
IP PROTECTION CLASS	54	54	54

COOLING REQUIREMENTS

COOLANT	Water	Water	Water
MAXIMUM WATER PRESSURE	6 bar	6 bar	6 bar
MINIMUM PRESSURE DIFFERENCE	2.2 bar	2.2 bar	2.2 bar
MINIMUM FLOW RATE	30 l/min	31 l/min	31 l/min
COOLANT TEMPERATURE	5 °C - 45 °C	5 °C - 45 °C	5 °C - 45 °C

GENERAL

OVERALL EFFICIENCY	91 %	91 %	91 %
CERTIFICATES / STANDARDS	CE, SEMI S2-0709, FCC standard part 18	CE, SEMI S2-0709, FCC standard part 18	CE, SEMI S2-0709, FCC standard part 18

AMBIENT CONDITIONS

OUTSIDE TEMPERATURE	5 °C - 40 °C	5 °C - 40 °C	5 °C - 40 °C
---------------------	--------------	--------------	--------------

**TruPlasma MF 7120
(G2) UltraFast****TruPlasma MF 7150
(G2) UltraFast****TruPlasma MF 7050
(G2)****OUTPUT**

RATED POWER	120 kW	150 kW	50 kW
MAXIMUM OUTPUT CURRENT	300 A eff	350 A eff	110 A eff
MAXIMUM OUTPUT VOLTAGE	1100 V eff	1100 V eff	1100 V eff

**TruPlasma MF 7120
(G2) UltraFast****TruPlasma MF 7150
(G2) UltraFast****TruPlasma MF 7050
(G2)**

NOMINAL OPERATING FREQUENCY	20 kHz - 50 kHz	20 kHz - 50 kHz	20 kHz - 50 kHz
-----------------------------	-----------------	-----------------	-----------------

ARC PARAMETER

MAXIMUM ARC RATE	8000 1/s	8000 1/s	8000 1/s
ARC ENERGY	1 mJ/kW	1 mJ/kW	10 mJ/kW
ARC TREATMENT TIME	25 µs	25 µs	50 µs

IGNITION VOLTAGES

WITH AUXILIARY IGNITION	3100 V	3100 V	3100 V
WITHOUT AUXILIARY IGNITION	790 V	790 V	790 V

NETWORK CONNECTION DATA

LINE VOLTAGE	(±10%) 380 V - 480 V	(±10%) 380 V - 480 V	(±10%) 380 V - 480 V
LINE FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz
LINE INPUT POWER	149 kVA	186 kVA	61 kVA
POWER FACTOR	0.95	0.95	0.95

HOUSING

WEIGHT	660 kg	660 kg	560 kg
IP PROTECTION CLASS	54	54	54

COOLING REQUIREMENTS

COOLANT	Water	Water	Water
MAXIMUM WATER PRESSURE	6 bar	6 bar	6 bar
MINIMUM PRESSURE DIFFERENCE	2.5 bar	2.5 bar	2.2 bar
MINIMUM FLOW RATE	36 l/min	36 l/min	28 l/min
COOLANT TEMPERATURE	5 °C - 45 °C	5 °C - 45 °C	5 °C - 45 °C

GENERAL

OVERALL EFFICIENCY	91 %	91 %	91 %
CERTIFICATES / STANDARDS	CE, SEMI S2-0709, FCC standard part 18	CE, SEMI S2-0709, FCC standard part 18	CE, SEMI S2-0709, FCC standard part 18

AMBIENT CONDITIONS

OUTSIDE TEMPERATURE	5 °C - 40 °C	5 °C - 40 °C	5 °C - 40 °C
---------------------	--------------	--------------	--------------

**TruPlasma MF 7075
(G2)****TruPlasma MF 7100
(G2)****TruPlasma MF 7120
(G2)****OUTPUT**

RATED POWER	75 kW	100 kW	120 kW
MAXIMUM OUTPUT CURRENT	200 A eff	225 A eff	300 A eff
MAXIMUM OUTPUT VOLTAGE	1100 V eff	1100 V eff	1100 V eff
NOMINAL OPERATING FREQUENCY	20 kHz - 50 kHz	20 kHz - 50 kHz	20 kHz - 50 kHz

ARC PARAMETER

MAXIMUM ARC RATE	8000 1/s	8000 1/s	8000 1/s
ARC ENERGY	10 mJ/kW	10 mJ/kW	10 mJ/kW

**TruPlasma MF 7075
(G2)****TruPlasma MF 7100
(G2)****TruPlasma MF 7120
(G2)**

ARC TREATMENT TIME

50 µs

50 µs

50 µs

IGNITION VOLTAGES

WITH AUXILIARY IGNITION

3100 V

3100 V

3100 V

WITHOUT AUXILIARY IGNITION

790 V

790 V

790 V

NETWORK CONNECTION DATA

LINE VOLTAGE

(±10%) 380 V - 480 V

(±10%) 380 V - 480 V

(±10%) 380 V - 480 V

LINE FREQUENCY

50/60 Hz

50/60 Hz

50/60 Hz

LINE INPUT POWER

93 kVA

124 kVA

149 kVA

POWER FACTOR

0.95

0.95

0.95

HOUSING

WEIGHT

610 kg

610 kg

660 kg

IP PROTECTION CLASS

54

54

54

COOLING REQUIREMENTS

COOLANT

Water

Water

Water

MAXIMUM WATER PRESSURE

6 bar

6 bar

6 bar

MINIMUM PRESSURE DIFFERENCE

2.2 bar

2.2 bar

2.5 bar

MINIMUM FLOW RATE

30 l/min

30 l/min

34 l/min

COOLANT TEMPERATURE

5 °C - 45 °C

5 °C - 45 °C

5 °C - 45 °C

GENERAL

OVERALL EFFICIENCY

91 %

91 %

91 %

CERTIFICATES / STANDARDS

CE, SEMI S2-0709, FCC standard
part 18CE, SEMI S2-0709, FCC standard
part 18CE, SEMI S2-0709, FCC standard
part 18**AMBIENT CONDITIONS**

OUTSIDE TEMPERATURE

5 °C - 40 °C

5 °C - 40 °C

5 °C - 40 °C

TruPlasma MF 7150 (G2)**OUTPUT**

RATED POWER

150 kW

MAXIMUM OUTPUT CURRENT

350 A eff

MAXIMUM OUTPUT VOLTAGE

1100 V eff

NOMINAL OPERATING FREQUENCY

20 kHz - 50 kHz

ARC PARAMETER

MAXIMUM ARC RATE

8000 1/s

ARC ENERGY

10 mJ/kW

ARC TREATMENT TIME

50 µs

IGNITION VOLTAGES

WITH AUXILIARY IGNITION

3100 V

WITHOUT AUXILIARY IGNITION

790 V

TruPlasma MF 7150 (G2)

NETWORK CONNECTION DATA

LINE VOLTAGE	(±10%) 380 V - 480 V
LINE FREQUENCY	50/60 Hz
LINE INPUT POWER	186 kVA
POWER FACTOR	0.95

HOUSING

WEIGHT	660 kg
IP PROTECTION CLASS	54

COOLING REQUIREMENTS

COOLANT	Water
MAXIMUM WATER PRESSURE	6 bar
MINIMUM PRESSURE DIFFERENCE	2.5 bar
MINIMUM FLOW RATE	34 l/min
COOLANT TEMPERATURE	5 °C - 45 °C

GENERAL

OVERALL EFFICIENCY	91 %
CERTIFICATES / STANDARDS	CE, SEMI S2-0709, FCC standard part 18

AMBIENT CONDITIONS

OUTSIDE TEMPERATURE	5 °C - 40 °C
---------------------	--------------