

GRAND ARC 161



SUGGESTED ACCESSORIES

1. 3MT 16MM2 CABLE WITH ELECTRODE HOLDER PLUG 13MM 21000
2. 3MT 16MM2 EARTH CABLE WITH CLAMP PLUG 13MM 21001
3. TIG TORCH LKM 26V 4MT 22020
4. HELMET LKM BASE H 31000



PRODUCT PARAMETERS

CODE	11006
INPUT VOLTAGE	230V
INPUT FREQUENCY	50/60 HZ
INPUT PHASE	1
RATED INPUT POWER*	4KW-5,5KW
RATED INPUT CURRENT (I1MAX)*	27A-37A
EFFECTIVE INPUT CURRENT (IIEFF)*	17A-24A
DUTY CYCLE 40% (10 MIN 40°C)*	160A
DUTY CYCLE 60% (10 MIN 40°C)*	135A
DUTY CYCLE 100% (10 MIN 40°C)*	105A
NO LOAD VOLTAGE	62V
CURRENT RANGE	10A/160A
NET WEIGHT	6,0KG
DIMENSIONS	380X185X305MM
PROTECTION CLASS	IP23
INSULATION CLASS	H
POWER FACTOR	0,65

* (TIG/MMA)



GRAND ARC 161

WELDING MACHINES

GRAND ARC 161 is an inverter power source for welding usage, born for professional application (X 160A 40%). It is an MMA (stick) and Lift TIG welding machine.

It is easy to adjust thanks to the digital display.

Hot Start, Antisticking and Arc Force are built in order to make the MMA welding very easy for the operator.

It is equipped with temperature, voltage and current sensors for high protection and it is designed to avoid failures due to voltage spikes as when using diesel generator.

Extremely low weight, small and with very good welding performance, GRAND ARC 161 is ideal for maintenance operations, repairs and every type of application when a good quality of welding is required.



GRAND ARC 160 PFC



SUGGESTED ACCESSORIES

1. 3MT 16MM2 CABLE WITH ELECTRODE HOLDER PLUG 13MM	21000
2. 3MT 16MM2 EARTH CABLE WITH CLAMP PLUG 13MM	21001
3. TIG TORCH LKM 26V 4MT	22020
4. HELMET LKM BASE H	31000



PRODUCT PARAMETERS

CODE	11000
INPUT VOLTAGE	230V
INPUT FREQUENCY	50/60 HZ
INPUT PHASE	1
RATED INPUT POWER*	3,2KW-4,8KW
RATED INPUT CURRENT (I1MAX)*	14A-21A
EFFECTIVE INPUT CURRENT (IIEFF)*	9A-13A
DUTY CYCLE 40%*	160A-160A
DUTY CYCLE 60%*	135A-135A
DUTY CYCLE 100%*	105A-105A
NO LOAD VOLTAGE	14,5V (LIMITED)
CURRENT RANGE	10A/160A
NET WEIGHT	7,0KG
DIMENSIONS	380X185X305MM
PROTECTION CLASS	IP23
INSULATION CLASS	H
POWER FACTOR	0,99

* (TIG/MMA)



GRAND ARC 160 PFC is an inverter power source for welding application, born for professional usage (X 160A 40%).

It is an MMA (stick) and Lift TIG welding machine. It is easy to adjust thanks to the digital display. Hot Start, Antisticking and Arc Force are built in order to make the MMA welding very easy for the operator. VRD system (Voltage Reduction Device) is a device used for decrease the no load voltage during the stand by to allow to work in environments where security requires limited work voltages (shipyards, oil platforms, etc).

P.F.C (Power Factor Corrector) reduce the harmonic current emissions and increase the power inverter efficiency reducing the input current more than 20%.

For the same reason it permit to have higher welding current than a standard inverter using a poor supply network and permit to use a very long supplying cable or a not stabilized line. Small, light and robust, GRAND ARC 160 PFC is ideal for buiding construction, maintenance operations and repairs.

GRAND ARC 160 PFC



GRAND ARC 160 CEL



SUGGESTED ACCESSORIES

1. 3MT 16MM2 CABLE WITH ELECTRODE HOLDER PLUG 13MM	21002
2. 3MT 16MM2 EARTH CABLE WITH CLAMP PLUG 13MM	21003
3. TIG TORCH LKM 26V 4MT	22020
4. HELMET LKM BASE H	31000



PRODUCT PARAMETERS

CODE	11002
INPUT VOLTAGE	230V
INPUT FREQUENCY	50/60 HZ
INPUT PHASE	1
RATED INPUT POWER*	3,7KW-5,0KW
RATED INPUT CURRENT (I1MAX)*	25A-34A
EFFECTIVE INPUT CURRENT (IIEFF)*	16A-22A
DUTY CYCLE 40% (10 MIN 40°C)*	160A-160A
DUTY CYCLE 60% (10 MIN 40°C)*	135A-135A
DUTY CYCLE 100% (10 MIN 40°C)*	105A-105A
NO LOAD VOLTAGE	90V
CURRENT RANGE	10A/160A
NET WEIGHT	6,5KG
DIMENSIONS	380X185X305MM
PROTECTION CLASS	IP23
INSULATION CLASS	H
POWER FACTOR	0,65

* (TIG/MMA)



GRAND ARC 160 CEL is an inverter power source for welding usage, born for professional application (X 160A 40%).

It is an MMA (stick) with an high no load voltage that give very good performance with cellulosic electrodes and Lift TIG welding machine.

It is easy to adjust thanks to the digital display.

Hot Start, Antisticking and Arc Force are built in order to make the MMA welding very easy for the operator.

It is equipped with temperature, voltage and current sensors for hight protection and it is designed to avoid failures due to voltage spikes as when using diesel generator.

Extremely low weight, small and with very good welding performance, GRAND ARC 160 CEL is ideal for pipe line, maintenance operations, repairs and every type of application when a good quality of welding is required.

GRAND ARC 160 CEL



GRAND ARC 200 PFC



SUGGESTED ACCESSORIES

1. 3MT 25MM2 CABLE WITH ELECTRODE HOLDER PLUG 13MM 21002
2. 3MT 25MM2 EARTH CABLE WITH CLAMP PLUG 13MM 21003
3. TIG TORCH LKM 26V 4MT 22020
4. HELMET LKM BASE H 31000



PRODUCT PARAMETERS

CODE	11001
INPUT VOLTAGE	230V
INPUT FREQUENCY	50/60 HZ
INPUT PHASE	1
RATED INPUT POWER*	4,6KW-6,4KW
RATED INPUT CURRENT (I1MAX)*	20A-28A
EFFECTIVE INPUT CURRENT (I1EFF)*	13A-18A
DUTY CYCLE 40% (10 MIN 40°C)*	200A-200A
DUTY CYCLE 60% (10 MIN 40°C)*	165A-165A
DUTY CYCLE 100% (10 MIN 40°C)*	130A-130A
NO LOAD VOLTAGE	14,5V (LIMITED)
CURRENT RANGE	10A/200A
NET WEIGHT	7,0KG
DIMENSIONS	380X185X305MM
PROTECTION CLASS	IP23
INSULATION CLASS	H
POWER FACTOR	0,99

* (TIG/MMA)



GRAND ARC 200 PFC

WELDING MACHINES

GRAND ARC 200 PFC is an inverter power source for welding application, born for professional usage (X 200A 40%).

It is the greater sister of GRAND ARC 160 PFC and its greater power allows to weld electrodes up to 5mm diameter. It is an MMA (stick) and Lift TIG welding machine. It is easy to adjust due the digital display.

Hot Start, Antisticking and Arc Force are built in order to make the MMA welding very easy for the operator. VRD system (Voltage Reduction Device) is a device used for decrease the no load voltage during the stand by to allow to work in environments where security requires limited work voltages (shipyards, oil platforms, etc).

P.F.C (Power Factor Corrector) reduce the harmonic current emissions and increase the power inverter efficiency reducing the input current more than 20%.

For the same reason it permit to have higher welding current than a standard inverter using a poor supply network and permit to use a very long supplying cable or a not stabilized line. Small, light and robust, GRAND ARC 200 PFC is ideal for construction, shipyard, maintenance operations and repairs.



GRAND ARC 320 CEL PFC MV



SUGGESTED ACCESSORIES

1. 4MT 35MM2 CABLE WITH ELECTRODE HOLDER PLUG 13MM	21002
2. 3MT 35MM2 EARTH CABLE WITH CLAMP PLUG 13MM	21003
3. TIG TORCH LKM 26V 4MT	22020
4. HELMET LKM BASE H	31000
5. WIRELESS REMOTE CONTROL FOR MMA	43008



PRODUCT PARAMETERS

CODE	11003
INPUT VOLTAGE	110V-460V
INPUT FREQUENCY	50/60 HZ
INPUT PHASE	1-3
RATED INPUT POWER*	6.8KW-8.2KW (1PH-110V)
	6.6KW-7.0KW (1PH-230V)
	9.0KW-9.0KW (3PH-230V)
	9.2KW-11.8KW (3PH-400V)
RATED INPUT CURRENT (11MAX)*	30A-36A (1PH-110V)
	29A-31A (1PH-230V)
	24A-24A (3PH-230V)
	14A-18A (3PH-400V)
EFFECTIVE INPUT CURRENT (1IEFF)*	23A-20A-(1PH-110V)
	21A-21A-(1PH-230V)
	15A-14A-(3PH-230V)
	12A-9A-(3PH-400V)
DUTY CYCLE 40% (10MIN 40°C)*	315A (MMA 3PH-400V)
DUTY CYCLE 60% (10MIN 40°C)*	150A-85A (1PH-110V)
	230A-175A (1PH-230V)
	245A-195A (3PH-230V)
	260A-260A (3PH-400V)
DUTY CYCLE 100% (10MIN 40°C)*	120A-70A (1PH-110V)
	180A-135A (1PH-230V)
	190A-150A (3PH-230V)
	200A-200A (3PH-400V)
NO LOAD VOLTAGE	80V
CURRENT RANGE*	10A/150A 10A/120A (1PH-110V)
	10A/250A 10A/200A (1PH-220V)
	10A/315A 10A/250A (3PH-220V)
	10A/315A 10A/315A (3PH-400V)
NET WEIGHT	20KG
DIMENSIONS	580X240X25mm
PROTECTION CLASS	IP23
INSULATION CLASS	H
POWER FACTOR	0.99 (1PH); 0.95(3PH)

* (TIG/MMA)



GRAND ARC 320 CEL PFC MV

GRAND ARC 320 CEL PFC MV is an heavy duty industrial multi voltage inverter power source for MMA (stick) welding and Lift TIG DC applications with excellent performance. It is an MMA (stick) with an high no load voltage that give very good performance with cellulose electrodes. Hot Start and Arc Force are adjustable in order give to the operator the best welding performance. Antisticking helps the welder stopping the welding current when the electrode is glued to the workpiece. VRD system (Voltage Reduction Device) is a device used for decrease the no load voltage during the stand by to allow to work in environments where security requires limited work voltages (shipyards, oil platforms, etc). P.F.C (Power Factor Corrector) reduce the harmonic current emissions and increase the power inverter efficiency reducing the input current more than 20%. For the same reason it permits to have higher welding current than a standard inverter using a poor supply network and permit to use a very long supplying cables or a not stabilized line. Multi voltage device permit to connect the machine both in single phase both in three phases from 110v to 460v . It is equipped with temperature, voltage and current sensors for hight protection and it is designed to avoid failures due to voltage spikes as when using diesel generator. Extremely robust GRAND ARC 320 CEL PFC MV is developed for tough working condition such as pipe line, shipbuilding, offshore and heavy carpentry. A wireless remote control can be connected.



GRAND ARC 400 CEL



SUGGESTED ACCESSORIES

1. 4MT 50MM2 CABLE WITH ELECTRODE HOLDER PLUG 13MM	21006
2. 3MT 50MM2 EARTH CABLE WITH CLAMP PLUG 13MM	21007
3. TIG TORCH LKM 26V 4MT	22020
4. HELMET LKM BASE H	31000



PRODUCT PARAMETERS

CODE	11004
INPUT VOLTAGE	400V
INPUT FREQUENCY	50/60 HZ
INPUT PHASE	3
RATED INPUT POWER*	14,0KW-17,0KW
RATED INPUT CURRENT (I _{MAX})*	29A-36A
EFFECTIVE INPUT CURRENT (I _{EFF})*	18A-23A
DUTY CYCLE 40% (10 MIN 40°C)*	400A
DUTY CYCLE 60% (10 MIN 40°C)*	330A
DUTY CYCLE 100% (10 MIN 40°C)*	325A
NO LOAD VOLTAGE	85V
CURRENT RANGE	20A/400A
NET WEIGHT	22KG
DIMENSIONS	570X280X460MM
PROTECTION CLASS	IP23
INSULATION CLASS	H
POWER FACTOR	0,7

*(TIG/MMA)



GRAND ARC 400 CEL is an heavy duty professional 3 phase inverter power source for MMA (stick) welding, MMA CELLULOSIC and Lift TIG DC applications with superb welding arc. It is an MMA (stick) with a very high no load voltage that give very good performance with cellulosic electrodes. Hot Start and Arc Force are adjustable in order to permit to the operator to work easily and with excellent results. Antisticking helps the welder stopping the welding current when the electrode is glued to the workpiece.

VRD system (Voltage Reduction Device) is a device used for decrease the no load voltage during the stand by to allow to work in environments where security requires limited work voltages (shipyards, oil platforms, etc).

It is equipped with temperature, voltage and current sensors for hight protection and it is designed to avoid failures due to voltage spikes as when using diesel generator. With a good duty cycle GRAND ARC 400 CEL is developed for tough working condition such as pipe line, shipbuilding, offshore, heavy carpentry and for the usage in the most extreme working environments.

GRAND ARC 400 CEL

