ador

peace of mind™

CREATING THE BEST WELDING EXPERIENCE

Welding Equipment

PROUDLY MADE IN INDIA

Edition: ADOR INTERNATIONAL 2023

INDEX

Welding Equipment

SMAW (Stick Electrode Welders and Air-Arc Gouging Equipment)

THYROLUXE 401 / 600

400 / 600 AMP CAPACITY WELDING RECTIFIER THYRISTOR BASED

3 Phase | CC | MMA | DC TIG

Key Attributes

- Smooth and stable arc with minimum spatter.
- Stepless current control.
- Welder friendly Remote controller for easy and convenient setting of current from workplace / job.
- Easy arc striking, High OCV for ease in arc start / restart.
- Protections against input supply fluctuations i.e. Under voltage, Over voltage, Single-phasing, overload and short circuit.
- Power sources are provided with built in Hot start, Antistick and self-controlled Arc force dynamics.

THYROLUXE 401 / 600

400 / 600 AMP CAPACITY WELDING RECTIFIER THYRISTOR BASED

TECHNICAL SPECIFICATIONS

MODELS	THYROLUXE 401	THYROLUXE 600	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415 +10% / -15%, 3, 50 / 60	415 +10% / -15%, 3, 50 / 60	V AC, NO., HZ
INPUT KVA @ 100% DUTY CYCLE	19.5	31.5	KVA
INPUT CURRENT @ 100% DUTY CYCLE	26	44	A AC
RECOMMENDED SWITCH FUSE RATING	TP - 35	TP - 63	-
OPEN CIRCUIT VOLTAGE	100	100	V DC
WELDING CURRENT RANGE	10 - 400	20 - 600	A DC
WELDING CURRENT RATING	400 @ 60%, 310 @ 100% DUTY CYCLE	600 @ 60%, 465 @ 100% DUTY CYCLE	A DC
WELDING ELECTRODE SIZE	2.5, 3.15, 4.0,.5.0 AND 6.3	2.5, 3.15, 4.0,.5.0 AND 6.3	MM
INGRESS PROTECTION	IP23	IP23	GRADE
COOLING	FORCED AIR	FORCED AIR	TYPE
INSULATION	H	H	CLASS
DIMENSIONS (L X W X H)	835 X 495 X 820	980 X 550 X 960	MM
WEIGHT	147	219	KG

ORDERING CODES

PRODUCT CODE	DESCRTIPTION
F10.34.401.0079	MMA WELDING RECTIFIER (THYRISTOR TECHNOLOGY), MODEL: THYROLUXE - 401 (DPM WITH SET AND ACTUAL WELDING CURRENT) WITH 5M INPUT SUPPLY CABLE, 5M EARTHING & WELDING CABLE & RUBBER WHEELS.
F10.34.401.0086	MMA WELDING RECTIFIER (THYRISTOR TECHNOLOGY), MODEL: THYROLUXE - 600 (DPM WITH SET & ACTUAL WELDING CURRENT) WITH 5M INPUT SUPPLY CABLE, 5M WELDING & EARTHING CABLE ASSEMBLY AND RUBBER WHEELS.

THYROLUXE 1200

1200 AMP CAPACITY WELDING / GOUGING RECTIFIER THYRISTOR BASED

Key Attributes

- Thyristor based heavy duty DC Welding and Gouging Rectifier.
- Stepless control for current adjustments.
- Protections against supply fluctuations i.e., Under voltage, Over voltage, Single phasing, overload and short circuit.
- Constant current drooping characteristics – Ideal for Welding and Gouging applications.
- Power source provided with built in Hot start, Antistick and self-controlled Arc force dynamics.

THYROLUXE 1200

1200 AMP CAPACITY WELDING / GOUGING RECTIFIER THYRISTOR BASED

TECHNICAL SPECIFICATIONS

MODEL	THYROLUXE 1200	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415 +10% / -10%, 3, 50 / 60	V AC, NOS., HZ
INPUT KVA @ 100% duty cycle	72	KVA
OPEN CIRCUIT VOLTAGE	100	VOLTS, DC
WELDING CURRENT RANGE	100 - 1200	AMPS, DC
WELDING CURRENT DUTY CYCLE	1200 @ 60%, 930 @ 100%	AMPS, DC
GOUGING CARBON ELECTRODE SIZE	6 TO 15	MM
INGRESS PROTECTION	IP23	CLASS
COOLING	FORCED AIR	TYPE
INSULATION	H	CLASS
DIMENSIONS (L X W X H)	1300 X 770 X 1100	MM
WEIGHT	460	KG

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.34.401.0001	MMA WELDING RECTIFIER (THYRISTOR TECHNOLOGY), MODEL: THYROLUXE - 1200

SUPERGEN 320

320 AMP CAPACITY MOTOR GENERATOR WELDING RECTIFIER

Key Attributes

- The set consists of three-phase motor as prime mover and DC welding generator of a special patented design
- Excellent high-quality welding with big savings in power bills
- Positive protection against overload and single phasing
- Mobile and mounted on wheels with rubber tyres.
- Ideal for welding with cellulosic electrodes for cross country pipelines and thermal/nuclear power plants.

SUPERGEN 320

320 AMP CAPACITY MOTOR GENERATOR WELDING RECTIFIER

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATION	VALUE	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415± +10%, 3, 50	V AC, NO., HZ
INPUT POWER	15.5 / 20.78	KW / KVA
SPEED (SYNCHRONOUS)	3,000	RPM
STARTING	STAR / DELTA	TYPE
RECOMMENDED SWITCH FUSE RATING	TP 40	AMPS, AC
PROTECTION TO MACHINE	SINGLE PHASING, UNDERVOLTAGE (340 V) / OVERVOLTAGE (480 V), THERMAL	-
OPEN CIRCUIT VOLTAGE	100	V DC
WELDING CURRENT RANGE	35 - 320	A DC
WELDING CURRENT DUTY CYCLE	320 @ 60%, 250 @ 100%	A DC
WELDING ELECTRODE SIZE	2.5, 3.15, 4.0,.5.0 AND 6.3	MM
ENCLOUSURE	TOTALLY ENCLOSED	TYPE
INGRESS PROTECTION	IP44 (EXCLUDING FAN SIDE)	CLASS
COOLING	FORCED AIR	TYPE
INSULATION	H	CLASS
DIMENSIONS (L X W X H)	1065 X 540 X840	MM
WEIGHT	265	KG

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.34.401.0001	MOTOR GENERATOR SET, MODEL: SUPERGEN 320 WITH 5M LONG INPUT SUPPLY CABLE, 5 PIN 63 AMP INDUSTRIAL PLUG, 5 M LONG WELDING & EARTHING CABLE ALONG WITH ELECTRODE HOLDER & EARTHING CLAMP.

RHINO-D 500 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

Key Attributes

- Chopper-based Energy Efficient, Diesel Engine-Driven Welding Generator. It is intended for heavy-duty Manual Metal ARC Welding & TIG welding.
- Welding current remains constant irrespective of engine speed variation or change in welding cable length.
- Big savings in fuel and longer runs before the next refuelling.
- Specially proven with Cellulosic (6010, 7010G & 8010G types) and other special types of electrodes.
- The welding generator is protected against output short circuit and over temperature.
- The set also has a built-in 3-phase 22 KVA and 1-phase 6 KVA auxiliary power source for lighting, grinding, hand tools, and other auxiliary purposes.

RHINO-D 500 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

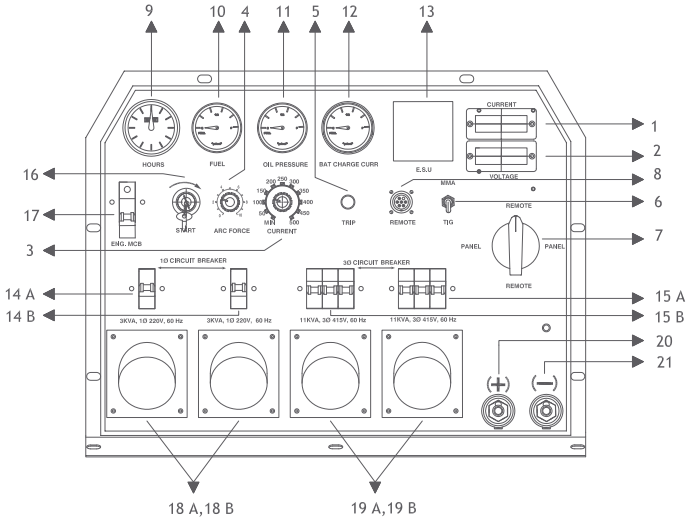
SALIENT FEATURES

- Versatile applications, including cross country, in-plant pipe, and tube welding.
- Ideal for heavy fabrication & site applications.
- Highly reliable even in hostile site conditions.
- Controlled noise level.
- Brushless design. Negligible maintenance.

ENGINE

The engine is a four-cylinder air-cooled diesel engine. It is supplied with a heavy-duty dry-type air cleaner, fuel filter, fuel lift pump, mechanical governor, electric starting motor, and battery charging alternator. The engine is protected against high cylinder head temperature and low lube oil pressure.

CONTROL PANEL



1 = Digital Ammeter
2 = Digital Voltmeter
3 = Current Control Potentiometer
4 = Arc Force Potentiometer
5 = Trip Indicator Lamp
6 = MMA / TIG Selector switches
7 = Local / Remote Selector Swich
8 = Remote Control Socket
9 = Engine Hour Meter
10 = Fuel Level Indicator
11 = Lub Oil Pressure Indicator
12 = Battery Charging Current Indicator
13 = ENGINE SAFETY UNIT
14 A, 14 B = Circuit Breakers for 1 Ø Auxiliary Supply
15 A, 15 B = Circuit Breakers for 3 Ø Auxiliary Supply
16 = Engine Starting Switch
17 = Engine Starting MCB
18 A, 18 B = 1 Ø Auxiliary Supply Sockets
19 A, 19 B = 3 Ø Auxiliary Supply Sockets
20 = Welding Output Terminal Positive
21 = Welding Output Terminal, Negative

RHINO-D 500 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

CONTROL PANEL SELECTION FOR ENGINE CONTROL (9, 10, 11, 12, 13, 16, 17)

The engine controls and instruments consist of a temperature gauge, hour meter, battery charging ammeter, oil pressure gauges, start key switch, and engine protection relay.

- Engine Circuit Breaker: Before starting the engine, switch on the engine circuit breaker.
- Key Switch: Engine Start/Stop & Ignition ON.
- Engine Stop Solenoid: This is a 12 V solenoid used to operate the fuel cut-off lever fitted on the fuel injection pump.
- Engine Protection Unit: This unit activates the engine stop solenoid in the event of low lubricant oil pressure, high cylinder head temperature, or fan belt failure.
- Temperature Switch: This is fitted on one of the cylinder heads and is used for sensing the temperature of the cylinder heads.
- Pressure Switch: This is fitted on the cylinder block through a flexible pressure pipe. It senses the lubricant oil pressure.
- Belt Failure Switch: This gets actuated in the event of fan belt failure.

CONTROL PANEL SELECTION FOR AUXILIARY POWER (14, 15, 18, 19)

There are four power sockets provided, each protected by individual MCBs.

- Two sockets rated at 3-phase, 60 Hz, 415 V, 11 KVA each (total 22 KVA).
- Two sockets rated at 1-phase, 60 Hz, 220 V, 3 KVA each (total 6 KVA).

AUXILIARY PANEL RATINGS

MODE	WELD LOAD TOGETHER WITH AUXILIARY LOAD	AUXILIARY MODE ONLY WITHOUT WELD LOAD	UNIT
RATING (3 PHASE)	18 KVA (AT WELDING LOAD OF MAXIMUM 500 A, 40 V)	22 KVA TOTAL (11 KVA + 11 KVA FROM EACH SOCKET)	KVA
RATING (SINGLE PHASE)	6 KVA (AT WELDING LOAD OF MAXIMUM 500 A, 40 V)	6 KVA TOTAL (3 KVA + 3 KVA FROM EACH SOCKET)	KVA
VOLTAGES (3 & 1 PHASE)	415 / 220	415 / 220	VOLTS
FREQUENCY	60	60	HZ
PHASES	3 / 1	3 / 1	NO
MCB RATING	16 / 16	16 / 16	AMPS

CONTROL PANEL SELECTION FOR WELDING (1, 2, 3, 4, 5, 6, 7, 8, 20, 21)

The Welding Control section of the front panel consists of the following:

- Potentiometers for Welding Current and Arc Force Control.
- Panel / Remote and MMA / TIG Mode Selector Switches.
- Remote Control Socket.
- Digital Ammeter and Voltmeter.
- Trip Indicator Lamp.
- Welding Output Terminals (+ve, -ve).

RHINO-D 500 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.33.102.0059	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 110 VOLTS, 6 (3+3) KVA (2 SOCKETS) SKID MOUNTED, **WITH ADDITIONAL ACCESSORIES REQUIRED FOR ZONE II APPLICATION**
F10.33.102.0068	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 110 VOLTS, 6 (3+3) KVA (2 SOCKETS) TWO WHEEL UNDERCARRIAGE, **WITH ADDITIONAL ACCESSORIES REQUIRED FOR ZONE II APPLICATION**
F10.33.102.0069	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 110 VOLTS, 6 (3+3) KVA (2 SOCKETS) SKID MOUNTED, **WITH ADDITIONAL ACCESSORIES REQUIRED FOR ZONE II APPLICATION**
F10.33.102.0073	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 110 VOLTS, 6 (3+3) KVA (2 SOCKETS), SKID MOUNTED.
F10.33.102.0074	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 110 VOLTS, 6 (3+3) KVA (2 SOCKETS), TWO WHEEL UNDERCARRIAGE.
F10.33.102.0075	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 110 VOLTS, 6 (3+3) KVA (2 SOCKETS), FOUR WHEEL UNDERCARRIAGE.
F10.33.102.0060	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), SKID MOUNTED.
F10.33.102.0061	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), TWO WHEEL UNDERCARRIAGE
F10.33.102.0062	DIESEL ENGINE DRIVEN SET, MODEL : RHINO-D 500 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS); 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), FOUR WHEEL UNDERCARRIAGE

RHINO D 2 X 300 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

Key Attributes

- Chopper based Energy Efficient Diesel Engine Driven Welding Generator designed for simultaneous Double Welder use in Manual Metal ARC Welding & TIG welding. Current rating doubles by paralleling Outputs of welder-I and Welder-II in Single Operator Mode.
- The welding generator maintains constant current in Single Operator and Double Operator mode. Welding current remains constant regardless of engine speed variation or welding cable length changes.
- Significant fuel savings and extended operating time before the need for refuelling.
- Specially proven with Cellulosic (6010, 7010G & 8010G types) and other special electrodes.
- The welding generator is protected against output short circuit and over temperature.
- The set has a built-in 3-phase 22 KVA and 1-phase 6 KVA auxiliary power source for lighting, grinding, hand tools, and other auxiliary purposes.

RHINO-D 2x300 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

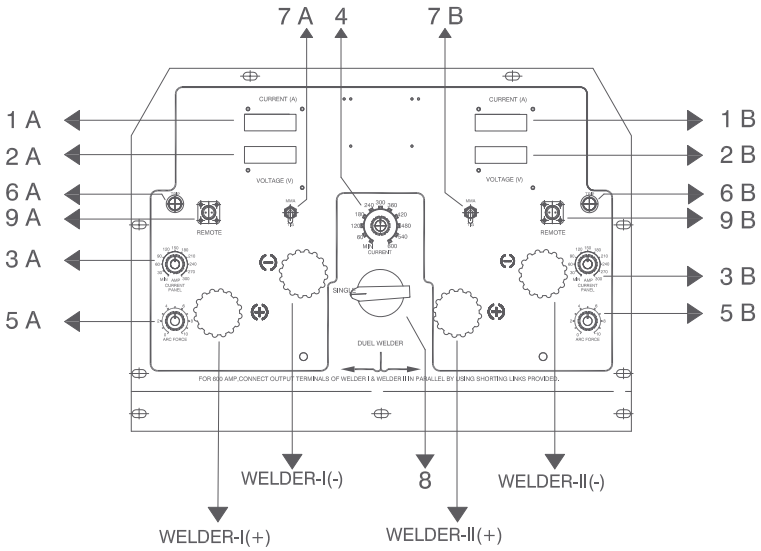
SALIENT FEATURES

- Versatile applications, including cross country, in-plant pipe, and tube welding.
- Ideal for heavy fabrication & site applications.
- Highly reliable even in hostile site conditions.
- Controlled noise level.
- Brushless design - Negligible Maintenance.

ENGINE

The engine is a four-cylinder air-cooled diesel engine. It is supplied with a heavy-duty dry-type air cleaner, fuel filter, fuel lift pump, mechanical governor, electric starting motor, and battery charging alternator. The engine is protected against high cylinder head temperature and low lube oil pressure.

CONTROL PANEL



1A, 1B = Digital Ammeters

2A, 2B = Digital Voltmeters

3A, 3B = Current Control Potentiometers (P3, P4)

4 = Current Control Potentiometer (P5) –Single Operator mode

5A, 5B = Arc Force Potentiometers (P1, P2)

6A, 6B = Trip Indicator Lamps

7A, 7B = MMA / TIG Selector Switches

8 = Selector Swich (S1) for selection of Single Operator / Dual Operator mode

9A, 9B = Remote Control Sockets

RHINO D 2 X 300 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

ENGINE CONTROL PANEL

The engine controls and instruments consist of Temperature gauge, Hour meter, Battery charging ammeter, Oil pressure gauges, Start key switch and engine protection relay.

- Engine Circuit Breaker: Before starting the engine, switch on the Engine Circuit breaker.
- Key Switch: Engine Start/Stop & Ignition ON.
- Engine Stop Solenoid: This 12V solenoid is used to operate the fuel cut-off lever fitted on the fuel injection pump.
- Engine Protection Unit: This unit activates the engine stop solenoid in the event of low lubricant oil pressure, high cylinder head temperature, or fan belt failure.
- Temperature Switch: This is fitted on one of the cylinder heads and is used for sensing the temperature of the cylinder heads.
- Pressure Switch: This is fitted on the cylinder block through a flexible pressure pipe. It senses the lubricant oil pressure.
- Belt Failure Switch: This switch is actuated in the event of fan belt failure.

AUXILIARY PANEL

The auxiliary panel is placed on the left side of the set. There are four power sockets provided, each protected by individual MCBs.

- Two sockets rated at 3-phase, 60 Hz, 415 V, 11 KVA each (total 22 KVA).
- Two sockets rated at 1-phase, 60 Hz, 220 V, 3 KVA each (total 6 KVA).

AUXILIARY PANEL RATINGS

MODE	WELD LOAD TOGETHER WITH AUXILIARY LOAD	AUXILIARY MODE ONLY WITHOUT WELD LOAD	UNIT
RATING (3 PHASE)	18 KVA (AT WELDING LOAD OF MAXIMUM 600 A, 40 V)	22 KVA TOTAL (11 KVA + 11 KVA FROM EACH SOCKET)	KVA
RATING (SINGLE PHASE)	6 KVA (AT WELDING LOAD OF MAXIMUM 600 A, 40 V)	6 KVA TOTAL (3 KVA + 3 KVA FROM EACH SOCKET)	KVA
VOLTAGES (3 & 1 PHASE)	415 / 220	415 / 220	VOLTS
FREQUENCY	60	60	HZ
PHASES	3 / 1	3 / 1	NO
MCB RATING	16 / 16	16 / 16	AMPS

RHINO D 2 X 300 K4

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE		UNIT
WELDING GENERATOR	BRUSHLESS		TYPE
OPERATING MODES	DOUBLE OPERATOR	SINGLE OPERATOR	
	MANUAL (CC)	MANUAL (CC)	
WELDING CURRENT RANGE	15 - 300 A	30 - 600 A	AMPS
MAX. HAND WELDING CURRENT @ 40% DC	2X300 A @ 29V	600 AMPS @ 30V	AMPS
MAX. HAND WELDING CURRENT @ 60% DC	2X250 A @ 26.5V	500 AMPS @ 30V	AMPS
MAX. HAND WELDING CURRENT @ 100% DC	2X200 A @ 24V	400 AMPS @ 36V	AMPS
OPEN CIRCUIT VOLTAGE (MAX)	92 VDC		VOLTS
GENERALLY, CONFORMS TO	IS - 2635		IS
INSULATION	H		CLASS
ENGINE	**VALUE**		**UNIT**
ENGINE MAKE, TYPE	KIRLOSKAR; HA - 494		-
CYLINDER	4		NOS.
ENGINE COOLING	AIR COOLED		TYPE
ENGINE RATING	52 BHP @ 1800 RPM		BHP
ENGINE RATED SPEED	1800		RPM
CONFORMS TO	ISO - 3046		ISO
STARTING (12V)	ELECTRIC		BATTERY
BATTERY CAPACITY (12V)	80 (CCA AT - 18°C AS PER IEC 420 A)		AH
FUEL CONSUMPTION	5.5		LTRS/HR.
FUEL TANK CAPACITY	70		LTRS.

DIMENSIONS AND WEIGHT

MACHINE TYPE	SKID MOUNTED	TWO WHEEL MOUNTED	FOUR WHEEL MOUNTED
L X W X H (MM)	2100 X 820 X 1250	3050 X 1455 X 1850	3435 X 1555 X 1850
APPROX. (KG)	1100	1250	1350

FG CODE	DESCRIPTION
F10.33.102.0063	DIESEL ENGINE DRIVEN SET, MODEL: RHINO-D 2X300 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS), 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), SKID MOUNTED.
F10.33.102.0064	DIESEL ENGINE DRIVEN SET, MODEL: RHINO-D 2X300 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS), 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), 2 WHEEL UNDERCARRIAGE.
F10.33.102.0065	DIESEL ENGINE DRIVEN SET, MODEL: RHINO-D 2X300 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS), 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), FOUR WHEEL UNDERCARRIAGE.

RHINO 700 DUAL

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

Key Attributes

- Designed for Double Welder use in Manual Metal ARC Welding & TIG welding & Operates silently with low noise levels.
- Welding current remains constant in both Single and Double Operator modes, unaffected by engine speed or welding cable length changes.
- Offers significant fuel savings and longer operation times before refuelling.
- Proven effective with Cellulosic and other special types of electrodes.
- Protected against output short circuit and over-temperature.
- Suitable for various electrode types and applications such as fabrication work, pipe welding, and site construction.
- Auxiliary power supplies available for lighting, grinding, hand tools, and other purposes (3Phase 22KVA, and 1phase 6KVA).
- Highly reliable even in harsh site conditions.
- Brushless design for negligible maintenance.

RHINO 700 DUAL

THE NEW GENERATION DIESEL ENGINE-DRIVEN WELDING SET

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE		UNIT
WELDING GENERATOR	BRUSHLESS		TYPE
OPERATING MODES	DOUBLE OPERATOR	SINGLE OPERATOR	
	MANUAL (CC)	MANUAL (CC)	
WELDING CURRENT RANGE	15 - 350 A	30 - 700 AMPS	AMPS
MAX. HAND WELDING CURRENT @ 40% DC	2X350 AMPS @ 32 V	700 AMPS @ 30V	AMPS
MAX. HAND WELDING CURRENT @ 60% DC	2X285 AMPS @ 30 V	570 AMPS @ 30V	AMPS
MAX. HAND WELDING CURRENT @ 100% DC	2X220 AMPS @ 28 V	440 AMPS @ 36V	AMPS
OPEN CIRCUIT VOLTAGE (MAX)	90 VDC		VOLTS
GENERALLY, CONFORMS TO	IS - 2635		IS
INSULATION	H		CLASS
ENGINE	VALUE		UNIT
ENGINE MAKE, TYPE	PERKINS 404D - 22T		-
CYLINDER	4		NOS.
ENGINE COOLING	WATER COOLED		TYPE
ENGINE RATING	47 BHP @ 1800 RPM		BHP
ENGINE RATED SPEED	1800		RPM
CONFORMS TO	ISO - 3046		ISO
STARTING (12V)	ELECTRIC		BATTERY
BATTERY CAPACITY (12V)	80 (CCA AT - 18°C AS PER IEC 420 A)		AH
FUEL CONSUMPTION	6		LTRS/HR.
FUEL TANK CAPACITY	70		LTRS.

AUXILIARY PANEL RATINGS

MODE	WELD LOAD TOGETHER WITH AUXILIARY LOAD	AUXILIARY MODE ONLY WITHOUT WELD LOAD	UNIT
RATING (3 PHASE)	9 KVA (AT WELDING LOAD OF MAXIMUM 700 A, 30 V)	22 KVA TOTAL (11 KVA + 11 KVA FROM EACH SOCKET)	KVA
RATING (SINGLE PHASE)	3 KVA (AT WELDING LOAD OF MAXIMUM 700 A, 30 V)	6 KVA TOTAL (3 KVA + 3 KVA FROM EACH SOCKET)	KVA
VOLTAGES (3 & 1 PHASE)	415 / 220	415 / 220	VOLTS
FREQUENCY	60	60	HZ
PHASES	3 / 1	3 / 1	NO
MCB RATING	32 / 32	32 / 32	AMPS

RHINO-E

BATTERY OPERATED INVERTER BASED WELDING POWER SOURCE

Key Attributes

- Dual Input Supply - Battery & 3 Phase 415 VAC.
- Automatic change over by detection to 3 Phase main supply.
- Fast charging battery charger unit. (Full charge in 50 mins)
- Varied battery life based on welding current, eg, 40 mins @ 120 A and 60 mins @ 80 A.
- Control Amps/Voltage and Battery Status via Mobile app. (IOS or Android)
- Easy to assemble and portable.
- Low noise emission and reduced carbon footprint.

RHINO-E

BATTERY OPERATED INVERTER BASED WELDING POWER SOURCE

RHINO – E MOBILE APP

- The Rhino-E mobile Application: Enhances Rhino-E welding machine control using mobile devices. Its interface connects to the machine, enabling remote monitoring and management of welding processes.
- App Purpose: Empowers welders and operators to conveniently supervise the Rhino-E welding machine. Through Bluetooth, users adjust settings, control welding, and access vital data, boosting productivity, safety, and efficiency.
- Equipment Link: Smoothly connects to the welding machine via Bluetooth. Pairing with compatible Rhino-E enabled machines is effortless. A secure Bluetooth link guarantees real-time communication.

DOWNLOAD APP

AUTHENTICATION & LOG IN

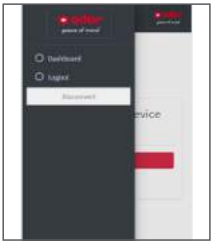
INSTANT BLUETOOTH PAIRING

CONTROL & MONITOR MAINS SUPPLY

BATTERY LOW INDICATION

COMMUNICATION FAILURE BETWEEN BATTERY AND POWER SOURCE

CONTROL & MONITOR BATTERY SUPPLY



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APP ATTRIBUTES

- Bluetooth Connectivity: Securely connect via Bluetooth within 250 meters, enabling real-time control.
- Remote Monitoring: Monitor welding process from mobile devices, whether on mains or battery.
- Parameter Control: Adjust welding settings for various tasks using the app.
- Real-Time Data: Access live welding parameters and status remotely.
- Battery Insights: View battery percentage, voltage, time, and electrode status for seamless planning.
- User Security: Only authorized user access and control app features with secure authentication.

RHINO-E

BATTERY OPERATED INVERTER BASED WELDING POWER SOURCE

TECHNICAL SPECIFICATIONS WITH 3 PHASE AC INPUT SUPPLY

PARAMETER	VALUE	UNIT
INPUT SUPPLY	415 +15% -10%, 3, 50/60	V AC, NOS., HZ
RATED INPUT POWER @ 415VAC	13 .0 @ 100%,19.0 @ 60%, 0.2 @ NO LOAD	KVA
INPUT SUPPLY CURRENT @ 415VAC	18.0 @ 100%, 26.0 @ 60%, 0.24 @ NO LOAD	A
EFFICIENCY	≥85	%
POWER FACTOR	0.93 MAX	COS Ø
OPEN CIRCUIT VOLTAGE	81 V (+/-5V)	V DC
WELDING CURRENT RANGE	10 - 400	A DC
WELDING CURRENT DUTY CYCLE	310 @ 100%, 400 @ 60%	-
PROTECTIONS (AUTO RESETTABLE)	- OVER VOLTAGE, UNDER VOLTAGE, SINGLE-PHASE PROTECTION - OVER TEMPERATURE PROTECTION - OUTPUT SHORT CIRCUIT PROTECTION	-

TECHNICAL SPECIFICATIONS WITH BATTERY INPUT SUPPLY

PARAMETER	VALUE	UNIT
INPUT SUPPLY	84	V DC
WELDING CURRENT RANGE	10-200	A DC
WELDING CURRENT @100%DUTY CYCLE	200	A DC
PROTECTIONS (AUTO RESET TABLE) (WITH BATTERY OPERATED INPUT SUPPLY)	OVER TEMPERATURE, OUTPUT SHORT CIRCUIT	-

FUNCTIONAL TECHNICAL SPECIFICATIONS

PARAMETER	VALUE	UNIT
ARC FORCE CONTROL (MMA MODE)	0 – 100 (80A MORE CURRENT THAN SET CURRENT WHEN SET AT 100%)	-
HOT START (MMA MODE)	0 – 100 (100A MORE CURRENT THAN SET CURRENT FOR 1.5SEC INITIALLY WHEN SET AT 100%)	-
WELDING ELECTRODE SIZES (DIAMETER) E-7018 E 6013	 2.5-6 2.5-6	 MM MM
REMOTE CONTROLLER (OPTIONAL)	PROVIDED AS OPTIONAL FOR CURRENT SETTING.	-
BUILT IN VRD (VOLTAGE REDUCING DEVICE) UNIT	OCV REDUCES TO 8-10V IN MMA MODE WHEN MACHINE IS IN NO LOAD CONDITION IN VRD MODE	-
COOLING	FORCED AIR	TYPE
CLASS OF INSULATION	H	-
DEGREE OF PROTECTION	IP23 (S)	-
DIMENSIONS (LENGTH X WIDTH X HEIGHT) WITH TROLLEY INCLUDING TWO BATTERIES	770 X 750 X 1090	MM
WEIGHT (APPROX.) (WITH TROLLEY INCLUDING TWO BATTERIES)	110	KG

RHINO-E

BATTERY OPERATED INVERTER BASED WELDING POWER SOURCE

CHARGER TECHNICAL SPECIFICATIONS

PARAMETER	VALUE	UNIT
NORMAL INPUT VOLTAGE	230V, 1PH	V AC
INPUT VOLTAGE RANGE	100-260	V AC
PHASE	1	NO.
FREQUENCY	45-65	HZ
INPUT CURRENT	≥ 8	A
POWER FACTOR	> 0.99	-
OUTPUT VOLTAGE	-	-
MAX	84	V DC
NOMINAL	74	V DC
MIN	65	V DC
CHARGER CURRENT	30	A
EFFICIENCY	≥ 89	%
BATTERY TYPE	LITHIUM ION	-
POWER	2220 MAX	W
DIMENSIONS (WITHOUT BATTERY) LENGTH X WIDTH X HEIGHT	470 X 381 X 266	MM
WEIGHT (WITHOUT BATTERY)	13	KG

BATTERY TECHNICAL SPECIFICATIONS

PARAMETER	VALUE	UNIT
OUTPUT VOLTAGE	-	-
MAX	84	V DC
NOMINAL	74	V DC
MIN	65	V DC
BATTERY TYPE	LITHIUM ION	-
POWER	2.96	KW/HR
DIMENSIONS (LENGTH X WIDTH X HEIGHT)	395 X 233 X 175	MM
WEIGHT	23.5	KG

CHAMP ARC 201

200 AMP CAPACITY WELDING RECTIFIER INVERTER BASED

Key Attributes

- Inverter based technology with constant output current.
- IGBT based operation at high frequency.
- Suitable for TIG and MMA welding operation.
- Suitable for scratch start TIG in 'TIG' Mode for normal operation.
- Current setting with encoder and its digital display on front panel.
- Over voltage, over temperature protection.

CHAMP ARC 201

200 AMP CAPACITY WELDING RECTIFIER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
SUPPLY VOLTAGE, PHASE, FREQUENCY	240 V +10%, -15%, 1 PHASE, 50 / 60 HZ	V AC, NOS., HZ
EFFICIENCY	UPTO 86	%
OPEN CIRCUIT VOLTAGE	55 V DC + / - 5 V	VOLTS, DC
WELDING CURRENT RANGE	15 - 200	AMPS, DC
WELDING CURRENT AT 40 DEG C, 10 MINUTE CYCLE	120 @ 100%; 150 @ 60%; 200 @ 35% DUTY CYCLE	-
INGRESS PROTECTION	IP21	TYPE
INSULATION	F	CLASS
DIMENSIONS L X W X H (WITH HANDLE)	320 X 120 X 195	MM
WEIGHT (APPROX.)	4.3	KG

ORDERING CODES

PRODUCT CODE	DESCRTIPTION
F10.34.501.0131	INVERTER BASED MMA WELDING POWER SOURCE MODEL:-CHAMP ARC 201

CHAMP 250

250 AMP CAPACITY WELDING RECTIFIER INVERTER BASED

Key Attributes

- Three-phase inverter-based, high-efficiency, and high-power factor DC Welder.
- Enhanced reliability thanks to SMD technology.
- Suitable for medium-duty welding applications.
- Arc force adjustment available on the panel.
- Light weight, compact, and portable for easy handling.
- Protections with auto-reset:
  - Input supply voltage protections for over and under voltage.
  - Over-temperature protection.
  - Protection against single phasing.

CHAMP 250

250 AMP CAPACITY WELDING RECTIFIER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%; 3; 50 / 60	VOLTS AC, NO., HZ
MAX. INPUT KVA @ 415V SUPPLY	7.5 @ 100% DUTY CYCLE, 0.15 @ NO LOAD	KVA
POWER FACTOR	UPTO 0.94	λ
EFFICIENCY	≥ 85	%
OPEN CIRCUIT VOLTAGE	84 V ± 5	VOLTS DC
WELDING CURRENT RANGE	10-250	AMPS DC
WELDING CURRENT (AT 40°C, 10 MINUTE DUTY CYCLE)	250 @ 60% DUTY CYCLE, 195 @ 100% DUTY CYCLE	AMPS DC
SUITABLE FOR WELDING ELECTRODE SIZE	2.5, 3.2, 4, 5	MM Ø
ARC FORCE SETTING	ADJUSTABLE BY POTENTIOMETER	
CURRENT DISPLAY (SET CURRENT AND ACTUAL CURRENT)	3 DIGIT –7 SEGMENT DIGITAL PANEL	AMPS DC
INGRESS PROTECTION	IP23	RATING
INSULATION	H	CLASS
DIMENSIONS L X W X H	520 X 260 X 410	MM
WEIGHT (APPROX.)	23	KG

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.34.501.0173	MMA WELDING INVERTER BASED POWER SOURCE MODEL: CHAMP 250 WITH 5M SUPPLY CABLE & CAM LOCK CONNECTOR,5M WELDING CABLE ASSLY WITH HOLDER,5M EARTHING CABLE ASSLY WITH CLAMP
F10.34.501.0174	MMA WELDING INVERTER BASED POWER SOURCE MODEL: CHAMP 250 WITH 5M SUPPLY CABLE & CAM LOCK CONNECTOR,5M WELDING CABLE ASSLY WITH HOLDER,5M EARTHING CABLE ASSLY WITH CLAMP,10M RCU

CHAMP T 400

400 AMP CAPACITY WELDING RECTIFIER INVERTER BASED

3 Phase | CC | MMA | DC TIG

CE

Key Attributes

- Three-phase inverter-based DC welder with high efficiency and a high-power factor.
- Suitable for long-distance welding and cellulosic electrodes, including 6010, 7010G, and 8010G types.
- Enhanced reliability with SMD technology.
- Capable of handling heavy-duty welding applications.
- Arc force adjustment available on the panel.
- Light weight, compact, and portable for easy handling.
- Capable of welding with long welding and return cables (100 meters + 100 meters).
- Protections with auto reset:
  - Input supply voltage protections for over and under voltage.
  - Over-temperature protection.
  - Protection against single phasing.

CHAMP T 400

400 AMP CAPACITY WELDING RECTIFIER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%; 3; 50 / 60	VOLTS AC, NO., HZ
MAX. INPUT KVA @ 415V SUPPLY	13 @ 100% DUTY CYCLE, 0.24 @ NO LOAD	KVA
POWER FACTOR	UPTO 0.93	λ
EFFICIENCY	≥ 85	%
OPEN CIRCUIT VOLTAGE	85 V ± 5	VOLTS DC
WELDING CURRENT RANGE	10-400	AMPS DC
WELDING CURRENT (AT 40°C, 10 MINUTE DUTY CYCLE)	400 @ 60% DUTY CYCLE, 310 @ 100% DUTY CYCLE	AMPS DC
SUITABLE FOR WELDING ELECTRODE SIZE	2.5, 3.2, 4, 5 AND 6.3	MM Ø
ARC FORCE SETTING	ADJUSTABLE BY POTENTIOMETER	-
CURRENT DISPLAY (SET CURRENT AND ACTUAL CURRENT)	3 DIGIT –7 SEGMENT DIGITAL PANEL METER	AMPS DC
INGRESS PROTECTION	IP23	RATING
COOLING	FORCED AIR	TYPE
INSULATION	H	CLASS
DIMENSIONS L X W X H	670 X 315 X 570	MM
WEIGHT (APPROX.)	40	KG

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.34.501.0171	MMA WELDING INVERTER BASED POWER SOURCE MODEL: CHAMP T400 WITH 5M SUPPLY CABLE & CAM LOCK CONNECTOR,WHEELS,5M WELDING CABLE ASSLY WITH HOLDER,5M EARTHING CABLE ASSLY WITH CLAMP, 10M RCU
F10.34.501.0172	MMA WELDING INVERTER BASED POWER SOURCE MODEL: CHAMP T400 WITH 5M SUPPLY CABLE & CAM LOCK CONNECTOR,WHEELS,5M WELDING WELDING CABLE ASSLY WITH HOLDER,5M EARTHING CABLE ASSLY WITH CLAMP

CHAMP 400 X

INVERTER BASED DC WELDER

Key Attributes

- High efficiency and high power factor DC welder.
- VRD feature to reduce output voltage to safe level with VRD ON / OFF switch.
- Suitable for heavy duty welding application.
- Hot start and ARC force adjustment on panel.
- Complies to IEC 60974-1 standard.
- Light weight, compact and portable for easy handling.
- Input supply voltage protections for over and under voltage.
- Over temperature protection.
- Protection against single phasing.

CHAMP 400 X

INVERTER BASED DC WELDER

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE	Unit
SUPPLY VOLTAGE, PHASE	415V + 15% - 10%; 3 PH, 50 / 60 HZ	VOLTS AC, Ø, HZ
INPUT POWER @ 415 V	13 @ 100% DUTY CYCLE, 19 @ 60% DUTY CYCLE, 0.2 @ NO LOAD	KVA
INPUT SUPPLY CURRENT @ 415V	18 @ 100% DUTY CYCLE, 26 @ 60% DUTY CYCLE, 0.24 @ NO LOAD	AMPS AC
EFFICIENCY	≥ 85	%
POWER FACTOR	0.93 MAX	-
OPEN CIRCUIT VOLTAGE @ 415 V INPUT SUPPLY	70 V (+ / -5V)	VOLTS DC
WELDING CURRENT RANGE	10 - 400	AMPS AC
WELDING CURRENT (AT 40 °C & 10 MINUTE DUTY CYCLE)	310 @ 100% DUTY CYCLE, 400 @ 60% DUTY CYCLE	AMPS AC
ARC FORCE CONTROL (MMA MODE)	0 - 100 (80 A MORE CURRENT THAN SET CURRENT WHEN SET AT FULL)	%
HOT START (MMA MODE)	0 - 100 (HOT START SET % MORE THAN SET CURRENT)	%
WELDING ELECTRODE SIZES DIAMETER	E - 6013 AND E - 7018: 2.5 - 6 MM;	MM
REMOTE CONTROLLER (OPTIONAL)	PROVIDED AS OPTIONAL FOR CURRENT SETTING	10 METER
COOLING	FORCED AIR	TYPE
CLASS OF INSULATION	H	CLASS
INGRESS PROTECTION	IP 23 (S)	-
DIMENSIONS (L X W X H)	580 X 237 X 440	MM
WEIGHT (APPROX.)	24	KG

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.34.501.0169	MMA WELDING INVERTER BASED POWER SOURCE MODEL: CHAMP 400 X WITH 5M SUPPLY CABLE & CAM LOCK CONNECTOR,5M WELDING CABLE ASSLY WITH HOLDER,5M EARTHING CABLE ASSLY WITH CLAMP
F10.34.501.0170	MMA WELDING INVERTER BASED POWER SOURCE MODEL: CHAMP 400 X WITH 5M SUPPLY CABLE & CAM LOCK CONNECTOR,5M WELDING CABLE ASSLY WITH HOLDER,5M EARTHING CABLE ASSLY WITH CLAMP,10M RCU

CHAMP 600

600 AMP CAPACITY WELDING / GOUGING RECTIFIER INVERTER BASED

Key Attributes

- Three-phase inverter-based DC Welder with high efficiency and a high-power factor.
- Suitable for heavy-duty welding applications and gouging.
- Enhanced reliability due to SMD technology.
- Capable of welding with all types of electrodes, including 6010, 7010G, and 8010G.
- Also suitable for long-distance welding with cellulosic electrodes.
- Arc force adjustment available on the panel.
- Capable of welding with long welding and return cables.
- Protections with auto reset:
  - Input supply voltage protections for over and under voltage.
  - Over-temperature protection.
  - Protection against single phasing.
  - Displaying Arc on time with reset option available.

CHAMP 600

600 AMP CAPACITY WELDING / GOUGING RECTIFIER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%; 3; 50 / 60	VOLTS AC, NO., HZ
MAX. INPUT KVA @ 415V SUPPLY	22 @ 100% DUTY CYCLE, 0.31 @ NO LOAD	KVA
POWER FACTOR	UPTO 0.93	λ
EFFICIENCY	87	%
OPEN CIRCUIT VOLTAGE	89 V ± 5	VOLTS DC
WELDING CURRENT RANGE	20-600	AMPS DC
WELDING CURRENT (AT 40°C, 10 MINUTE DUTY CYCLE)	600 @ 60% DUTY CYCLE, 465 @ 100% DUTY CYCLE	AMPS DC
SUITABLE FOR WELDING ELECTRODE SIZE	2.5, 3.2, 4, 5 AND 6.3	MM Ø
SUITABLE FOR GOUGING ELECTRODE SIZE	UP TO 9	MM Ø
ARC FORCE SETTING	ADJUSTABLE BY POTENTIOMETER	-
CURRENT DISPLAY (SET CURRENT AND ACTUAL CURRENT)	3 DIGIT –7 SEGMENT DIGITAL PANEL METER	AMPS DC
INGRESS PROTECTION	IP23	RATING
COOLING	FORCED AIR	TYPE
INSULATION	H	CLASS
DIMENSIONS L X W X H	700 X 460 X 570	MM
WEIGHT (APPROX.)	55	KG

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.34.501.0167	MMA WELDING POWER SOURCE(INVERTER BASE) MODEL: CHAMP 600 WITH DUAL DISPLAY AND ARC ON TIMER WITH 5M SUPPLY CABLE, 5M DINSE TYPE EARTHING CABLE ASSLY WITH CLAMP, 5M DINSE TYPE WELDING CABLE ASSLY WITH HOLDER

CHAMP 1200

1200 AMP CAPACITY WELDING / GOUGING RECTIFIER INVERTER BASED

Key Attributes

- Three-phase inverter-based, high-efficiency, and high-power factor DC Welder.
- Suitable for normal electrode welding as well as gouging at high currents.
- Enhanced reliability due to SMD technology.
- The CHAMP 1200 has an optional built-in Voltage Reduction Device (VRD) for safety, limiting the machine's open circuit voltage to less than 15V as required in certain areas. An ADOR engineer can easily activate this function inside the power source if needed by the user.
- Protections with auto reset:
  - Input Supply Voltage protections for over and under voltage.
  - Over-Temperature.
  - Protection against single phasing.

CHAMP 1200

1200 AMP CAPACITY WELDING / GOUGING RECTIFIER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%; 3; 50 / 60	VOLTS AC, NO., HZ
MAX. INPUT KVA @ 415V SUPPLY	55 @ 100% DUTY CYCLE	KVA
INPUT SUPPLY CURRENT	76 @ 100% DUTY CYCLE, 92 @ 60% DUTY CYCLE	AMPS AC
POWER FACTOR @ 100% DUTY CYCLE	0.93	λ
EFFICIENCY 100 DUTY CYCLE	≥ 85	%
OPEN CIRCUIT VOLTAGE	90 V (15 V IF VRD IS ENABLED)	VOLTS DC
WELDING CURRENT RANGE	100-1200	AMPS DC
WELDING CURRENT (AT 40°C, 10 MINUTE DUTY CYCLE)	1200 @ 60% DUTY CYCLE, 1000 @ 100% DUTY CYCLE	AMPS DC
SUITABLE FOR WELDING ELECTRODE SIZE	2.5, 3.2, 4, 5 AND 6.3	MM Ø
SUITABLE FOR GOUGING ELECTRODE SIZE	UP TO 12	MM Ø
CURRENT DISPLAY (SET CURRENT AND ACTUAL CURRENT)	3 DIGIT –7 SEGMENT DIGITAL PANEL METER	AMPS DC
VOLTAGE DISPLAY	3 DIGIT –7 SEGMENT DIGITAL PANEL METER	VOLTS DC
INGRESS PROTECTION	IP23	RATING
COOLING	FORCED AIR	TYPE
INSULATION	H	CLASS
DIMENSIONS L X W X H	930 X 525 X 950	MM
WEIGHT (APPROX.)	115	KG

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.34.501.0175	MMA WELDING INVERTER BASED POWER SOURCE MODEL: CHAMP 1200 WITH 5M SUPPLY CABLE, 5M WELDING CABLE ASSLY WITH HOLDER, 5M EARTHING CABLE ASSLY WITH CLAMP, 10M RCU

Welding Equipment

GTAW (TIG) Welders

CHAMPTIG 220 C

220 AMP CAPACITY DC TIG / DC PULSED TIG WELDER INVERTER BASED

Key Attributes

- Inverter based technology with constant output current.
- IGBT based Power Source, operating at high frequency.
- Suitable for TIG and MMA welding operation.
- DC Pulsed TIG and MMA, with advanced PWM technology
- High performance MCU, Digital control, Digital display
- 2T HF/ 4T HF/ 2T Lift TIG/ 4T Lift TIG selection
- Intelligent protection: over-voltage, over-current, over-temperature

CHAMPTIG 220 C

220 AMP CAPACITY DC TIG / DC PULSED TIG WELDER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
SUPPLY VOLTAGE, PHASE, FREQUENCY	240 V +10%, -15%, 1 PHASE, 50 / 60 HZ	VOLTS AC, NO., HZ
MAX. INPUT KVA @ 240 V SUPPLY	MMA: 5.0 @ 100%, @ 9.0 @ 35%; TIG: 4.0 @ 100%, 7.8 @ 35%	KVA
EFFICIENCY	UPTO 84	%
OPEN CIRCUIT VOLTAGE	70 ± 5 (30 V VRD - MMA MODE)	VOLTS DC
WELDING CURRENT RANGE	5 - 200 (MMA) / 5 - 220 (TIG)	AMPS DC
DUTY CYCLE (MMA / TIG MODE)	120 / 130 @ 100%, 150 / 170 @ 60%, 200 / 220 @ 35%	AMPS DC
INGRESS PROTECTION	IP23	TYPE
COOLING	FORCED AIR	TYPE
INSULATION	F	CLASS
DIMENSIONS L X W X H	400 X 120 X 240	MM
WEIGHT (APPROX.)	8	KG

TIG PARAMETERS	VALUE	UNIT
WELDING CURRENT SET	5 - 220	A
GAS PRE-FLOW TIME / POST FLOW TIME	0.1 – 1.0 / 0.1 – 1.0	SEC.
CURRENT UPSLOPE TIME / DOWNSLOPE TIME	0 – 5 / 0 – 5	SEC.
START CURRENT (IS)/ PEAK CURRENT (IP) / BASE CURRENT (IB) / CRATER CURRENT (IC) (TIG)	5 - 220	A
PULSE FREQUENCY	0.5 - 100	HZ
DUTY CYCLE (TP)	5 – 100	%

MMA PARAMETERS	VALUE	UNIT
HOT START	1-10 (10 SIGNIFIES 100%)	%
ARC FORCE	1-10 (10 SIGNIFIES 100%)	%
WELDING CURRENT SET	MMA 5 - 200	A

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.38.003.0163	MMA/PULSE TIG WELDING POWER SOURCE MODEL: CHAMPTIG 220(C)WITH 200A TIG TORCH 4MTR, 5MTR GAS HOSE, 3MTR EARTHING CABLE WITH CLAMP, ARGON GAS REGULATOR

CHAMPTIG 300 P / 400 P

300 / 400 AMP CAPACITY DC TIG / DC PULSED TIG WELDER INVERTER BASED

WATER COOLED VERSION

Key Attributes

- CHAMPTIG 300 P / CHAMPTIG 400 P are inverter-based, high efficiency, and high power-factor DC Pulse TIG/MMA welders.
- Suitable for a wide variety of material types and thicknesses.
- Full-featured TIG controls are possible with HF ignition.
- Equipped with intelligent protection against over/under voltage and over current/temperature.
- The machines come with the option of a water-cooled torch with a water-cooling unit or with a gas-cooled torch.

CHAMPTIG 300 P / 400 P

300 / 400 AMP CAPACITY DC TIG / DC PULSED TIG WELDER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE		UNIT
MODEL	CHAMP TIG 300 P	CHAMP TIG 400 P	
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%, 3 PHASE, 50 / 60 HZ	415 V +15%, -10%, 3 PHASE, 50 / 60 HZ	VOLTS, AC
INPUT KVA @ 415 V SUPPLY	MMA MODE – 7.5, TIG MODE – 7.0 @ 100% DUTY CYCLE; MMA MODE – 11.0, TIG MODE – 10.0 @ 60% DUTY CYCLE	MMA MODE-13, TIG MODE – 10 @ 100% DUTY CYCLE; MMA MODE-19, TIG MODE – 15 @ 60% DUTY CYCLE	KVA
POWER FACTOR @ 100% DUTY CYCLE	0.93 MAX.	0.93 MAX.	λ
EFFICIENCY @ 100% DUTY CYCLE	> 82 %	> 85 %	∂°
OPEN CIRCUIT VOLTAGE @ 415V INPUT SUPPLY	70 V DC (+/- 5 V)	70 V DC (+/- 5 V)	VOLTS, DC
WELDING CURRENT RANGE	MMA MODE 50 - 250, TIG MODE 5 - 300	MMA MODE 50 - 400, TIG MODE 20 - 400	AMPS, DC
WELDING CURRENT AT 40 DEG C, 10 MINUTE CYCLE	MMA MODE 195, TIG MODE 230 @ 100% DUTY CYCLE; MMA MODE 250, TIG MODE 300 @ 60% DUTY CYCLE	310 @ 100% DUTY CYCLE; 400 @ 60% DUTY CYCLE	AMPS, DC
OPTIONAL HANDHELD REMOTE CONTROLLER	PROVIDED AS OPTIONAL FOR CURRENT SETTING IN MMA / TIG MODE		10 METER
PROTECTIONS	OVER VOLTAGE, UNDER VOLTAGE, SINGLE- PHASING, OVER TEMPERATURE		-
COOLING	FORCED AIR		TYPE
CLASS OF INSULATION	H		-
DEGREE OF PROTECTION	IP23S		-
DIMENSIONS L X W X H (WITHOUT HANDLE)	670 X 315 X 530	700 X 315 X 530	MM
WEIGHT (APPROX.)	37	41	KG.

CHAMPTIG 300 P / 400 P

300 / 400 AMP CAPACITY DC TIG / DC PULSED TIG WELDER INVERTER BASED

TIG WELDING PARAMETER SPECIFICATIONS		
PARAMETER	VALUE	UNIT
MODEL	CHAMP TIG 300 P / 400 P	
GAS FLOW TIME	PREFLOW 0 – 5, POSTFLOW 0.1 - 20	SEC.
START / PULSE / CRATER CURRENT IN TIG	CHAMPTIG 300 P: 5 – 300; CHAMPTIG 400 P: 10 - 400	AMP.
CURRENT SLOPE TIME	UP SLOPE 0 – 10, DOWN SLOPE 0 - 10	SEC.
BASE CURRENT TIG	10% - 90% OF PULSE CURRENT	AMP
PULSE WIDTH	10-90% OF WIDTH OF PULSE CURRENT	%
PULSE FREQUENCY	1.0 - 300	HZ
SPOT TIME	1 – 10	SEC.

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.38.003.0190	DC PULSE TIG OUTFIT, MODEL: CHAMPTIG 300P(DUAL), 5M SUPPLY CABLE, GAS COOLED TORCH: HIPROTIG 201-8,5M GAS HOSE ASSLY, 5M EARTHING CABLE ASSLY, ARGON GAS REGULATOR WITHOUT TROLLEY & WITHOUT WCU
F10.38.003.0191	DC PULSE TIG OUTFIT, MODEL:CHAMPTIG 300P(DUAL), 5M SUPPLY CABLE, WATER COOLED TORCH: HIPROTIG 402-8, 5M GAS HOSE ASSLY, 5M EARTHING CABLE ASSLY, ARGON GAS REGULATOR WITH TROLLEY & WITH WCU-302
F10.38.003.0192	DC PULSE TIG OUTFIT,MODEL: CHAMPTIG 400P(DUAL),5M SUPPLY CABLE, GAS COOLED TORCH:HIPROTIG 201-8, 5M GAS HOSE ASSLY, 5M EARTHING CABLE ASSLY, ARGON GAS REGULATOR WITHOUT TROLLEY & WITHOUT WCU
F10.38.003.0193	DC PULSE TIG OUTFIT, MODEL: CHAMPTIG 400P(DUAL), 5M SUPPLY CABLE, WATER COOLED TORCH:HIPROTIG 402-8, 5M GAS HOSE ASSLY, 5M EARTHING CABLE ASSLY, ARGON GAS REGULATOR WITH TROLLEY & WITH WCU-302

CHAMPTIG 400 AD

INVERTER BASED AC/DC MIXED PULSED TIG WELDING SYSTEM

Key Attributes

- High-frequency inverter technology offers consistent output for both TIG (AC & DC) and MMA welding.
- MMA mode: Choose between positive (DC+) and negative (DC-) polarity.
- TIG mode: Options for HF ON and HF OFF, suitable for scratch start.
- Easy arc striking with built-in HF ignition.
- Digital front panel with keypad and multifunction encoder for welding process, mode selection, and parameter adjustment.
- Dual 7-segment LED displays for current and voltage, plus an LCD for other settings.
- Anti-stick function to prevent short circuits in MMA mode.
- TIG modes: CRATER OFF (2T), CRATER ON (4T), SPOT, and CYCLE.
- Cleaning width control, AC offset adjustment, and AC frequency setting for AC TIG welding.
- Adjustable pulse current, frequency, width, AC current, frequency, cleaning control, and AC offset to meet seam requirements and extend tungsten electrode life.
- Optional remote control and foot switch for setting current in MMA and TIG modes.
- Comes with a water cooling unit and a 500 Amp capacity water-cooled TIG torch for heavy-duty welding.

CHAMPTIG 400 AD

INVERTER BASED AC/DC MIXED PULSED TIG WELDING SYSTEM

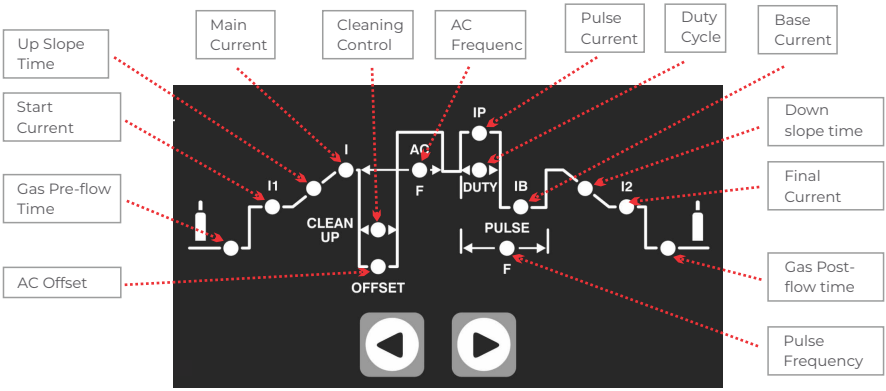
PROTECTION

The equipment has the following protections:

- Under Voltage: The TRIP LED (Red) lights up if the supply voltage drops below 340 VAC.
- Over Voltage: The TRIP LED (Red) lights up if the supply voltage exceeds 470 VAC.
- Over Temperature: The TRIP LED (Red) lights up if the main power components get too hot.
- Single Phasing Protection: If any one of the three phases (R, Y, B) is missing, welding will stop, and the TRIP LED (Red) will light up. No welding current is available when the TRIP LED (Red) is on.

CONTROL PANEL

PARAMETER SETTINGS AND ADJUSTMENTS



CHAMPTIG 400 AD

INVERTER BASED AC/DC MIXED PULSED TIG WELDING SYSTEM

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V + 15%, - 10%; 3, 50 / 60	VOLTS, AC, NOS., HZ
INPUT POWER @ 415 VAC	100% DUTY CYCLE: MMA MODE = 19, TIG MODE = 15; 60% DUTY CYCLE: MMA MODE = 26, TIG MODE = 20	KVA
INPUT CURRENT @ 415VAC	100% DUTY CYCLE: MMA MODE = 26, TIG MODE = 21; 60% DUTY CYCLE: MMA MODE = 36, TIG MODE = 28;	AMPS, AC
EFFICIENCY	UP TO 82	%
POWER FACTOR	0.8 MAX.	λ
OPEN CIRCUIT VOLTAGE @ 415V INPUT SUPPLY	78 V DC (+/- 5 V) - DC MMA, TIG; 78 V AC (+/- 5 V) - AC TIG	VOLTS
WELDING CURRENT RANGE	MMA MODE 50 - 400, AC / DC TIG MODE 20 - 400	AMPS
WELDING CURRENT @ 40 DEG C, 10 MINUTE CYCLE	310 @ 100% DUTY CYCLE, 400 @ 60% DUTY CYCLE,	AMPS
HAND / FOOT REMOTE	PROVIDED AS OPTIONAL	10 METER
FRONT PANEL FUNCTIONS	1) SELECTOR SWITCHES FOR SELECTION OF: MMA / TIG, 2T / 4T / SPOT / CYCLE, DC+/DC-/AC WELDING METHOD, PULSE / NORMAL MODE, HF ON / OFF, NORMAL / FOOT SWITCH CONTROL, WATER / GAS COOLED TORCH SELECTION 2) GAS CHECK SWITCH 3) MENU SWITCH FOR SELECTING ALL FUNCTIONS VIA. GAS PRE-FLOW, START CURRENT, UPSLOPE TIME, BASE CURRENT, PULSE CURRENT, DOWN SLOPE TIME, CRATER CURRENT, GAS POST FLOW TIME, CLEANING FOR AC, AC FREQUENCY, AC OFFSET, PULSE WIDTH/ SPOT TIME, PULSE FREQUENCY AS PER SELECTED MODE OF OPERATION. 4) CONNECTORS FOR TORCH SWITCH, FOOT SWITCH, REMOTE, GAS OUT, CAMLOCK POWER OUTPUT 5) MAINS ON 'GREEN' COLOR AND TRIP 'RED" INDICATION 6) ENCODER FOR SELECTED PARAMETER VALUE INCREMENT / DECREMENT.	
COOLING	FORCED AIR	TYPE
CLASS OF INSULATION	H	-
DEGREE OF PROTECTION	IP 23 (S)	-
DIMENSIONS LENGTH X WIDTH X HEIGHT	780 X 355 X 620	MM
WEIGHT (APPROX.)	66	KG.

CHAMPTIG 400 AD

INVERTER BASED AC/DC MIXED PULSED TIG WELDING SYSTEM

TIG WELDING PARAMETER SPECIFICATIONS

PARAMETERS	VALUE	UNIT
GAS PRE-FLOW / POST FLOW TIME	0 – 5 / 0.1 - 20	SEC
INITIAL WELDING CURRENT - TIG	20 – 400	AMPS
CURRENT UPSLOPE / DOWNSLOPE TIME	0 – 10 / 0 - 10	SEC.
BASE CURRENT / PULSE CURRENT / CRATER CURRENT (TIG)	20 – 400 / 20 – 400 / 20 - 400	AMPS
PULSE WIDTH	10 - 90% OF PULSE TIME	%
PULSE FREQUENCY	1 – 500	HZ
SPOT TIME	1 – 10	SEC
CLEANING CONTROL	- 40 TO + 40	%
AC FREQUENCY CONTROL	20 – 50	HZ
AC OFFSET CONTROL	- 50 TO + 30	%

TECHNICAL SPECIFICATIONS – WATER COOLING UNIT WCU 302

PARAMETERS	VALUE	UNIT
INPUT SUPPLY VOLTAGE, PHASE, FREQUENCY	230 V; SINGLE; 50	V AC; NO., HZ
COOLING CAPACITY	750-1000	W
MAX MOTOR POWER	220	W
MAX PUMP PRESSURE	2.5	BAR
MAX PUMP FLOW RATE	10	L/MIN
TANK CAPACITY	8	L
CONNECTOR SIZE	1/4" BSP, 19TPI	IN/OUT
DIMENSIONS: L X W X H	MM	560 X 325 X 285
WEIGHT	KG	18

ORDERING INFORMATION

FG CODE	DESCRIPTION
F10.38.003.0215	AC/DC PULSE TIG OUTFIT,MODEL:CHAMPTIG 400AD,5M SUPPLY CABLE,GAS COOLED TORCH: HIPROTIG 303-8,5M GAS HOSE ASSLY,5M EARTHING CABLE ASSLY, WITHOUT TROLLEY & WITHOUT WCU
F10.38.003.0216	AC/DC PULSE TIG OUTFIT,MODEL:CHAMPTIG 400AD,5M SUPPLY CABLE,WATER COOLED TORCH: HIPROTIG 402-8,5M GAS HOSE ASSLY,5M EARTHING CABLE ASSLY, WITH TROLLEY & WITH WCU-302

CHAMPTIG 500 AD

500 AMP CAPACITY AC / DC TIG / PULSED TIG WELDER INVERTER BASED

WATER COOLED VERSION

Key Attributes

- High frequency inverter-based technology with constant output current suitable for both TIG (AC & DC) and MMA welding operations.
- Welding process, mode selection, and parameter adjustment using the keypad and multi-function encoder provided on the digital front panel.
- Capable of meeting the requirements of seam depth, width, and ripple, thereby prolonging the lifespan of the tungsten electrode.
- CHAMPTIG 500 AD is offered with a water-cooling unit, trolley, and heavy-duty water-cooled TIG torch.
- The equipment is provided with the following protections:
  - Under-voltage (< 340VAC), over-voltage (> 470 VAC), and single phasing.
  - Over-temperature.

CHAMPTIG 500 AD

500 AMP CAPACITY AC / DC TIG / PULSED TIG WELDER INVERTER BASED

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE	UNIT
SUPPLY VOLTAGE, PHASE, FREQUENCY	10 TO 90% OF WIDTH OF PULSE CURRENT	VOLTS, AC; NOS.; HZ
INPUT POWER @ 415VAC	15 @ 100%, 20 @ 60%, 27 @ 35% DUTY CYCLE - TIG MODE19 @ 100%, 26 @ 60%, 34 @ 35% DUTY CYCLE- MMA MODE	KVA
EFFICIENCY	UP TO 82	%
POWER FACTOR	0.8 MAX.	ʎ
OPEN CIRCUIT VOLTAGE @ 415V INPUT SUPPLY	78 V DC (± 5 V) - DC MMA, TIG; 78 V AC (± 5 V) - AC TIG	VOLTS
WELDING CURRENT RANGE	MMA MODE 50 - 500, AC / DC TIG MODE 20 - 500	AMPS
WELDING CURRENT AT 40 DEG C, 10 MINUTE CYCLE	310 @ 100%, 400 @ 60%, 500 @ 35% DUTY CYCLE	AMPS
REMOTE CONTROLLER / FOOT SWITCH CONTROLLER	PROVIDED AS OPTIONAL FOR CURRENT SETTING.	10 METER
COOLING	FORCED AIR	TYPE
CLASS OF INSULATION	H	-
DEGREE OF PROTECTION	IP23(S)	-
DIMENSIONS LENGTH X WIDTH X HEIGHT	780 X 355 X 620	MM
WEIGHT (APPROX.)	66	KG.

CONT

CHAMPTIG 500 AD

500 AMP CAPACITY AC / DC TIG / PULSED TIG WELDER INVERTER BASED

TIG WELDING PARAMETER SPECIFICATIONS

PARAMETER	VALUE	UNIT
GAS FLOW TIME	PREFLOW 0 – 5, POSTFLOW 0.1 - 20	SEC.
INITIAL WELDING CURRENT, BASE CURRENT, PULSE CURRENT, CRATER CURRENT	CHAMPTIG 500AD: 20 – 500	AMP.
CURRENT SLOPE TIME	UP SLOPE 0 – 10, DOWN SLOPE 0 - 10	%
PULSE WIDTH	10 - 90% OF PULSE TIME PERIOD	%
PULSE FREQUENCY	CHAMPTIG 500 AD: 1 - 500	HZ
SPOT TIME	1 – 10	SEC.
CLEANING CONTROL	- 40 TO + 40	%
AC FREQUENCY CONTROL	CHAMPTIG 500 AD: 20 - 50	HZ
AC OFFSET CONTROL	- 50 TO + 30	SEC.

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.38.003.0198	AC/DC PULSE TIG OUTFIT, MODEL:CHAMPTIG 500AD, 5M SUPPLY CABLE, WATER COOLED TORCH: HIPROTIG 501-8, 5M GAS HOSE ASSLY, 5M EARTHING CABLE ASSLY, ARGON GAS REGULATOR WITH TROLLEY & WITH WCU-302

Welding Equipment

GMAW (MIG / MAG) Welders

MAXIMIG 400 / 600

400 / 600 AMP CAPACITY MIG / MAG WELDER STEP CONTROLLED, DIODE BASED

3 Phase | CV | MIG/MAG

Key Attributes

- User friendly selection of 2track / 4track operation for zero defect GMAW welding.
- Good and consistent weld quality with low hydrogen content.
- Dependable wire feeder system ensures long, uninterrupted welding.
- Quick release wire feed roller mechanism enables operator to change the wire spool quickly, minimizing the unproductive time and thus increasing the productivity on the shop floor.
- Recommended for all position MIG / MAG welding applications.
- Suitable for wide range ·of metals like Carbon Steel, Stainless Steel, with appropriate or recommended consumable.
- Ideally recommended for heavy duty MIG / MAG welding applications like crane structure components manufacturing, 3 shift use, rough handling on the shop-floor and fabrication shops where maintenance staff is not very qualified.

MAXIMIG 400 / 600

400 / 600 AMP CAPACITY MIG / MAG WELDER STEP CONTROLLED, DIODE BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE		UNIT
POWER SOURCE	MAXIMIG 400	MAXIMIG 600	
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 ± 10%, 3, 50/60		VOLTS, AC; NOS.; HZ
INPUT KVA @ 100% DUTY CYCLE	17.5	23	KVA
NO. OF WELDING STEPS	32	32	
OPEN CIRCUIT VOLTAGE	18 - 54	MAX. 19 - 71 / ACTUAL 18 - 61	VOLTS, DC
WELDING CURRENT RANGE	50 - 400	70 - 600	AMPS, DC
WELDING CURRENT @ 100% DUTY CYCLE	310 @ 29.5 V	465 @ 37.0 V	AMPS, DC
WELDING CURRENT @ 60% DUTY CYCLE	400 @ 34.0 V	600 @ 44.0 V	AMPS, DC
COOLING	FORCED AIR		TYPE
INSULATION	H		CLASS
DIMENSIONS (L X W X H)	830 X 435 X 810	950 X 540 X 950	MM
WEIGHT (APPROX.)	136	255	KG
WIRE FEEDER	FEEDLITE 40 NEH - C (4 ROLL)		MODEL
WEIGHT (WITHOUT SPOOL)	16 KG (APPROX)		
DIMENSIONS (L X W X H)	563 X 230 X 410		KG MM
SUITABLE FOR WIRE SPOOL CAPACITY	15 KG		KG
WIRE FEEDER FITTED WITH ROLLERS	1.2/1.6 FOR SOLID WIRE 2 NO		MM
WIRE FEEDER MOTOR VOLTAGE	42 V DC		VOLTS DC
WIRE DRIVE MOTOR.	PERMANENT MAGNET DC TYPE.		TYPE
WIRE ROLL DRIVE	FOUR		NO
WIRE FEED SPEED	1.5 TO 18		METERS / MINUTE
SUITABLE FOR WIRE SIZES	0.8, 1.0, 1.2, 1.6		MM
TORCH	HIPRO 404 (E) B / MTG 400 (E)	HIPRO 502 E) / MTG 600 (E)	MODEL

MAXIMIG 400 / 600

400 / 600 AMP CAPACITY MIG / MAG WELDER STEP CONTROLLED, DIODE BASED

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.37.202.0263	MIG/MAG WELDING OUTFIT, MODEL: MAXIMIG-400-C, WITH FEEDLITE-40 (NEM-C), 5M INTER. CABLE, CYLINDER, WF TROLLEY, TORCH: HIPRO 403 (E)-4M, 5M EARTHING & INPUT SUPPLY CABLE, 6M RCU, 2M GAS HOSE,GAS PREHEATER, CO2 REGULATOR & RUBBER WHEELS
F10.37.202.0262	MIG/MAG WELDING OUTFIT, MODEL: MAXIMIG-400-C, WITH FEEDLITE-40 (NEM-C), 10M INTER. CABLE, CYLINDER, WF TROLLEY, TORCH: HIPRO 403 (E)-4M, 5M EARTHING & INPUT SUPPLY CABLE,11M RCU, 2M GAS HOSE,GAS PREHEATER, CO2 REGULATOR & RUBBER WHEELS.
F10.37.202.0250	MIG/MAG WELDING OUTFIT, MODEL: MAXIMIG-400-C, WITH FEEDLITE-40 (NEM-C), 15M INTER. CABLE, CYLINDER, WF TROLLEY, TORCH: HIPRO 403 (E)-4M, 5M EARTHING & INPUT SUPPLY CABLE,16M RCU, 2M GAS HOSE,GAS PREHEATER, CO2 REGULATOR & RUBBER WHEELS
F10.37.202.0264	MIG/MAG WELDING OUTFIT (DIODE TECHNOLOGY), MODEL: MAXIMIG 600, WITH P.S CVR 601, W.F FEEDLITE 40 (NEH-C), 5M INTER. CABLE, HIPRO 502 (E), 5M EARTHING & INPUT SUPPLY CABLE,6M RCU, 2M GAS HOSE,GAS PREHEATER, CO2 REGULATOR & RUBBER WHEELS.
F10.37.202.0261	MIG/MAG WELDING OUTFIT (DIODE TECHNOLOGY), MODEL: MAXIMIG 600, WITH P.S CVR 601, W.F FEEDLITE 40 (NEH-C) , 10M INTER. CABLE, HIPRO 502 (E), 5M EARTHING & INPUT SUPPLY CABLE,11M RCU, 2M GAS HOSE,GAS PREHEATER, CO2 REGULATOR & RUBBER WHEELS.
F10.37.202.0265	MIG/MAG WELDING OUTFIT (DIODE TECHNOLOGY), MODEL: MAXIMIG 600, WITH P.S CVR 601, W.F FEEDLITE 40 (NEH-C), 15M INTER. CABLE, HIPRO 502 (E), 5M EARTHING & INPUT SUPPLY CABLE,16M RCU, 2M GAS HOSE,GAS PREHEATER, CO2 REGULATOR & RUBBER WHEELS.

CHAMPMIG 400 / 500

400 / 500 AMP CAPACITY MIG / MAG WELDER INVERTER BASED

3 Phase | CV | MIG/MAG

Key Attributes

- CHAMP MIG 400 / 500 are IGBT inverter-based welding power sources, suitable for GMAW applications. The IGBT Power module, high frequency transformer and fast recovery diode are used as key devices for power conversion and transmission to assure better efficiency and performance.
- The equipment is provided with following protections:
  - Under Voltage and Over Voltage
  - Over Temperature
  - Single Phasing Protection

CHAMPMIG 400 / 500

400 / 500 AMP CAPACITY MIG / MAG WELDER INVERTER BASED

TECHNICAL SPECIFICATIONS

MODELS	ICVR 400 (CHAMPMIG 400)	ICVR 500 (CHAMPMIG 500)	UNIT
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 +10% / -10%, 3, 50 / 60		VOLTS, AC; NO.; HZ
INPUT KVA	12.0 @ 100% DUTY CYCLE, 0.24 @ NO LOAD	17.5 @ 100% DUTY CYCLE, 0.31 @ NO LOAD	KVA
POWER FACTOR	0.93 MAX.	0.94 MAX.	λ
EFFICIENCY	87	>85	%
OPEN CIRCUIT VOLTAGE	65 ± 5%		VOLTS, DC
WELDING VOLTAGE AND CRATER VOLTAGE RANGE	16-39	17-44	VOLTS, DC
WELDING CURRENT RATING	400 @ 60%; 310 @ 100% DUTY CYCLE	500 @ 60%; 387 @ 100% DUTY CYCLE	AMPS, DC
WELDING CURRENT AND CRATER CURRENT RANGE	50-400	65-500	AMPS, DC
COOLING	50-400		TYPE
INSULATION	FORCED AIR		CLASS
DIMENSIONS (L X W X H)	670 X 315 X 570	700 X 465 X 630	MM
WEIGHT	44	57.6	KG
WIRE FEEDER	FEEDLITE 40 NEMR (C)	FEEDLITE 40 NEHR (C)	
WIRE FEEDER DRIVE UNIT	4 ROLL PMDC TYPE		TYPE
MOTOR VOLTAGE	42 V DC		-
WIRE SPEED	1.5 TO 18		METERS / MINUTE
WIRE SPOOL CAPACITY	15 KG		KG
SUITABLE FOR WIRE DIAMETER	0.8 - 1.6		MM
DIMENSIONS (L X W X H)	563 X 230 X 410		MM
WEIGHT	16 KG (APPROX)		KG
TORCH	HIPRO 404 B / MTG 400 E	HIPRO 502 C E / MTG 600 E	MODEL

CHAMPMIG 400 / 500

400 / 500 AMP CAPACITY MIG / MAG WELDER INVERTER BASED

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.37.401.0456	MIG/MAG WELDING O/F, CHAMPMIG 400, CAMLOCK, 5M I/P CABLE, W/F:FEEDLITE- 40(NEMR-C) DETACH WITH SPOOLCOVER, WHEEL, 5M INTERCON ASSLY, TORCH: HIPRO 403 (E)-4M, 2M GASHOSE,5M EARTH CABLE WITH CLAMP, GAS PREHEATER, CO2 REG,1.2-1.6MM KNURLED ROLLER, TROLLEY
F10.37.401.0392	MIG/MAG WELDING O/F,CHAMPMIG 400,CAMLOCK,5M I/P CABLE,W/F:FEEDLITE-40(NEMR-C)DETACH WITH SPOOLCOVER,WHEEL,10M INTERCON ASSLY,TORCH: HIPRO 403 (E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0457	MIG/MAG WELDING O/F,CHAMPMIG 400,CAMLOCK,5M I/P CABLE,W/F:FEEDLITE-40(NEMR-C)DETACH WITH SPOOLCOVER,WHEEL,15M INTERCON ASSLY,TORCH: HIPRO 403 (E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLE
F10.37.401.0413	MIG/MAG WELDING O/F,MODEL:CHAMPMIG 500,5M I/P CABLE,W/F:FEEDLITE-40(NEHR-C)DETACH WITH SPOOLCOVER,WHEEL,5M INTERCON ASSLY,TORCH: HIPRO 502C (E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0412	MIG/MAG WELDING O/F, MODEL:CHAMPMIG 500, 5M I/P CABLE,W/F:FEEDLITE-40(NEHR-C)DETACH WITH SPOOLCOVER,WHEEL, 10M INTERCON ASSLY, TORCH: HIPRO 502C (E)-4M, 2M GASHOSE, 5M EARTH CABLE WITH CLAMP, GAS PREHEATER, CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0451	MIG/MAG WELDING O/F, MODEL: CHAMPMIG 500, 5M I/P CABLE,W/F:FEEDLITE-40(NEHR-C)DETACH WITH SPOOLCOVER,WHEEL,15M INTERCON ASSLY,TORCH: HIPRO 502C (E)-4M, 2M GASHOSE,5M EARTH CABLE WITH CLAMP, GAS PREHEATER, CO2 REG,1.2-1.6MM KNURLED ROLLER, TROLLEY

CHAMPMULTI 400 / 500

400 / 600 AMP CAPACITY MIG / FCAW / MMA / TIG WELDER INVERTER BASED

Key Attributes

- Multi-process welding outfits with an inverter-based welding power source.
- The welding power source has both constant current (CC) and constant voltage characteristics (CV), making it suitable for MMA and MIG/MAG and FCAW applications.
- Power source is protected against single phasing, undervoltage, overvoltage, short circuit, and temperature rise.
- MMA process with this outfit is most suitable for all kinds of electrodes, including CELWEL, for fabrication work, pipe welding, site construction, etc.
- GMAW process is suitable for welding in a semiautomatic/automatic mechanism for welding MS, SS, and Al materials with solid and flux core wires (FCAW mode).

CHAMPMULTI 400 / 500

400 / 600 AMP CAPACITY MIG / FCAW / MMA / TIG WELDER INVERTER BASED

SALIENT FEATURES:

- Single point Synergic control in GMAW.
- User friendly Digital front panel and Digital remote controller with display.
- 2T, 4T and SPOT and Multi Spot operating modes in MIG Mode as well as FCAW mode.
- Dynamic Inductance adjustment in GMAW process and Arc force adjustment in MMA process for better arc control
- Crater voltage and Crater current adjustment through digital panel.
- ERROR CODE DIGITAL DISPLAY ON FRONT PANEL – for easy fault diagnostics

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE		UNIT
POWER SOURCE	ICCCVR 400 (CHAMPMULTI 400)	ICCCVR 500 (CHAMPMULTI 500)	
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 (+15% - 10%), 3. 50 / 60		V AC, NOS., HZ
INPUT POWER (MMA POWER)	13 @ 100%; 19 @ 60% DUTY CYCLE	18.5 @ 100%; 26.5 @ 60% DUTY CYCLE	KVA
EFFICIENCY	> 85	> 87	%
POWER FACTOR	0.93 MAX		λ
OPEN CIRCUIT VOLTAGE	MMA / TIG: 84; MIG / FCAW: 55	MMA / TIG: 70; MIG / FCAW: 65	V DC
WELDING AND CRATER CURRENT RANGE - MIG	50 - 500	65 - 500	A DC
WELDING CURRENT RANGE - CC	MMA: 50-400; TIG: 10-400	MMA: 50-500; TIG: 10-500	A DC
DUTY CYCLE	310 @ 100%; 400 @ 60%	387 @ 100%; 500 @ 60%	A DC
WELDING AND CRATER VOLTAGE RANGE - MIG	14-40 V	14-44 V	V DC
SUITABLE WELDING ELECTRODE SIZE	2.5, 3.2 , 4, 5, 6 MM DIAMETER		MM
SUITABLE WIRE SIZE DIA	0.8, 1.0, 1.2, 1.6 MM DIAMETER		MM
COOLING	FORCED AIR		TYPE
CLASS OF INSULATION	H		CLASS
DEGREE OF PROTECTION	IP23 (S)		-
DIMENSIONS L X W X H	670 X 315 X 570	700 X 460 X 650	MM
WEIGHT (APPROX.)	52	57	KG

CHAMPMULTI 400 / 500

400 / 600 AMP CAPACITY MIG / FCAW / MMA / TIG WELDER INVERTER BASED

PARAMETER	VALUE		UNIT
POWER SOURCE	ICCCVR 400 (CHAMPMULTI 400)	ICCCVR 500 (CHAMPMULTI 500)	
WIRE FEEDER	FEEDLITE 40 NEM (C)	FEEDLITE 40 NEH (C)	-
WIRE FEEDER DRIVE UNIT	4 ROLL PMDC TYPE	4 ROLL PMDC TYPE	-
MOTOR VOLTAGE	42 V DC	42 V DC	-
WIRE SPEED	1.5 TO 18	1.5 TO 18	METERS / MINUTE
WIRE SPOOL CAPACITY	15 KG	15 KG	KG
SUITABLE FOR WIRE DIAMETER	0.8,1.0,1.6	0.8,1,1.2,1.6	MM
DIMENSIONS (L X W X H)	563 X 230 X 410	563 X 230 X 410	MM
WEIGHT	16 KG (APPROX)	16 KG (APPROX)	KG
TORCH	HIPRO 404 (E) B / MTG 400 (E)	HIPRO 502 (E) / MTG 500 (E)	MODEL

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.37.401.0456	MIG/MAG WELDING O/F,CHAMPMULTI 400,CAMLOCK,5M I/P CABLE,W/F:FEEDLITE-40(NEM-C)DETACH WITH SPOOLCOVER,WHEEL,5M INTERCON ASSLY,TORCH: HIPRO 403(E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0392	MIG/MAG WELDING O/F,CHAMPMULTI 400,CAMLOCK,5M I/P CABLE,W/F:FEEDLITE-40(NEM-C)DETACH WITH SPOOLCOVER,WHEEL,10M INTERCON ASSLY,TORCH: HIPRO 403(E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0457	MIG/MAG WELDING O/F,CHAMPMULTI 400,CAMLOCK,5M I/P CABLE,W/F:FEEDLITE-40(NEM-C)DETACH WITH SPOOLCOVER,WHEEL,15M INTERCON ASSLY,TORCH: HIPRO 403(E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0413	MIG/MAG WELDING O/F,MODEL:CHAMPMULTI 500,5M I/P CABLE,W/F:FEEDLITE-40(NEH-C)DETACH WITH SPOOLCOVER,WHEEL,5M INTERCON ASSLY,TORCH: HIPRO 502C (E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0412	MIG/MAG WELDING O/F,MODEL:CHAMPMULTI 500,5M I/P CABLE,W/F:FEEDLITE-40(NEH-C)DETACH WITH SPOOLCOVER,WHEEL,10M INTERCON ASSLY,TORCH: HIPRO 502C (E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY
F10.37.401.0451	MIG/MAG WELDING O/F,MODEL:CHAMPMULTI 500,5M I/P CABLE,W/F:FEEDLITE-40(NEH-C)DETACH WITH SPOOLCOVER,WHEEL,15M INTERCON ASSLY,TORCH: HIPRO 502C (E)-4M,2M GASHOSE,5M EARTH CABLE WITH CLAMP,GAS PREHEATER,CO2 REG,1.2-1.6MM KNURLED ROLLER,TROLLEY

CHAMP PULSE 500

500 AMP CAPACITY MIG / FCAW / PULSED MIG / MMA / TIG WELDER INVERTER BASED

3 Phase | CC | CV | MMA | DC TIG | MIG/MAG

CE

Key Attributes

- Fine arc length control in Pulse MIG and MIG welding modes for different types of welding applications.
- Excellent arc force and hot start control in MMA mode for low current applications.
- Digital pulse feedback from the feeding motor for accurate control of wire speed.
- Graphical-LCD for displaying machine settings, along with dual 7-segment LED displays for actual current and voltage display.
- Wire feeder with a digital console for remote parameter setting.
- Facility to store 100 welding programs (weld parameters) for easy save and recall operations.
- Addition of synergic programs externally for specific wire and gas applications using USB facility.

CHAMP PULSE 500

500 AMP CAPACITY MIG / FCAW / PULSED MIG / MMA / TIG WELDER INVERTER BASED

TECHNICAL SPECIFICATIONS

POWER SOURCE	CHAMP PULSE 500	MODEL
PARAMETER	VALUE	UNIT
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%, 3, 50 /	VOLTS AC, NO., HZ
MAX. INPUT KVA @ 415 V SUPPLY	@ 100% DUTY CYCLE: MMA / TIG / PULSED MIG MODES - 20, MIG MODE - 17.5; @ 60% DUTY CYCLE: MMA / TIG / PULSED MIG MODES - 30, MIG MODE - 25.5	KVA
INPUT CURRENT @ 415 V SUPPLY	@ 100% DUTY CYCLE: MMA / TIG / PULSED MIG MODES - 28, MIG MODE - 24; @ 60% DUTY CYCLE: MMA / TIG / PULSED MIG MODES - 41, MIG MODE - 35	AMPS, AC
POWER FACTOR	0.9 MAXIMUM	λ
EFFICIENCY	UPTO 85	%
OPEN CIRCUIT VOLTAGE @ 415V INPUT SUPPLY	MMA / TIG / PULSED MIG / MIG MODES 72 V ± 5 V	VOLT, DC
WELDING CURRENT RANGE	MMA / TIG: 15 - 500, MIG / PULSED MIG: 30 - 500	AMP, DC
WELDING CURRENT AT 40 °C, 10 MINUTE CYCLE	387 AMPS @ 100% DUTY CYCLE, 500 AMPS @ 60% DUTY CYCLE	AMPS, DC
PROTECTIONS	OVER VOLTAGE, UNDER VOLTAGE, SINGLE-PHASING, OVER TEMPERATURE, OVER CURRENT	-
PROGRAM STORAGE FACILITY	100 JOBS ALONG WITH PARAMETER LOCKING FACILITY	-
AUXILIARY POWER SUPPLY FOR WCU	240 V, 300 VA	VAC, VA
COOLING	FORCED AIR	TYPE
AMBIENT TEMPERATURE RATING	40	°C
CLASS OF INSULATION	H	-
DEGREE OF PROTECTION	IP23S	-
COMPATIBILITY TO INTERNATIONAL STANDARDS	AS PER EN 60974-1	-
DIMENSIONS (L X W X H) WATER COOLED VARIANT	1147 X 574 X 1202	MM
WEIGHT WATER COOLED VARIANT	117	KG

CHAMP PULSE 500

500 AMP CAPACITY MIG / FCAW / PULSED MIG / MMA / TIG WELDER INVERTER BASED

POWER SOURCE	VALUE				UNIT
MODE	MMA WELDING	TIG WELDING	MIG WELDING	PULSED MIG WELDING - ADDITIONAL	
WELDING CURRENT (MMA / TIG MODES)	15 - 500	15 - 500	NA	NA	AMP, DC
ARC FORCE (MMA / TIG MODES)	0 - 100	NA	NA	NA	%
HOT START (MMA / TIG MODES)	0 - 100	NA	NA	NA	%
GAS PRE FLOW TIME	NA	NA	0 – 10	0 – 10	SEC.
INDUCTANCE	NA	NA	0 – 40	0 – 40	%
WELDING / CRATER CURRENT (1) MIG / FCAW / PULSED MIG MODE	NA	NA	30 – 500	30 – 500	AMP, DC
WELDING / CRATER VOLTAGE MIG / FCAW / PULSED MIG MODE	NA	NA	10.0 – 44.0	10.0 – 44.0	VOLT, DC
BURN - BACK TIME	NA	NA	0.01 - 5.0	0.01 - 5.0	SEC.
GAS POST FLOW TIME	NA	NA	0 – 10	0 – 10	SEC.
ARC LENGTH	NA	NA	NA	- 40 TO + 40	%
TWIN PULSE FREQUENCY	NA	NA	NA	1.0 – 10.0	HZ
TWIN PULSE DUTY CYCLE	NA	NA	NA	10 - 90	%
TWIN PULSE CURRENT RATIO	NA	NA	NA	0 - 200	%

CHAMP PULSE 500

500 AMP CAPACITY MIG / FCAW / PULSED MIG / MMA / TIG WELDER INVERTER BASED

TECHNICAL SPECIFICATIONS – WIRE FEEDER

PARAMETER	VALUE	MODEL
MODEL	PULSEFEED 40 SFG / 40 SFW	
NOMINAL INPUT SUPPLY VOLTAGE	44 V	V AC
WIRE FEEDER MOTOR VOLTAGE	42 V DC	VOLT DC
WIRE DRIVE MOTOR	PERMANENT MAGNET DC TYPE WITH ENCODER FEEDBACK	VOLT DC
RATED POWER	80	WATTS
WIRE ROLL DRIVE	FOUR	NO
SUITABLE FOR WIRE SPOOL CAPACITY	15 KG	KG
WIRE FEED SPEED	1 - 24	METERS / MINUTE
SUITABLE FOR WIRE SIZES	SOLID WIRE (MS/SS) & ALUMINIUM - 0.8, 1, 1.2, 1.6; FCW - 1.2, 1.6	MM
TORCH END ADAPTER	EURO	TYPE
FRONT PANEL	DUAL 7-SEGMENT DISPLAY AND ENCODER FOR SETTING PARAMETERS	-
DIMENSIONS (L X W X H)	697 X 285 X 511	MM
WEIGHT (APPROX., WITHOUT SPOOL AND INTERCONNECTION CABLE ASSEMBLY)	19 (APPROX.)	KG

TECHNICAL SPECIFICATIONS – WATER COOLING UNIT (FOR WATER COOLED SYSTEMS)

PARAMETER	VALUE	MODEL: WCU - 302
MODEL	UNIT	
SUPPLY VOLTAGE, PHASE, FREQUENCY	VOLT, AC	230 V, 1 PHASE, 50 / 60 HZ
COOLING CAPACITY	W	750-1000
MAX MOTOR POWER	W	220
MAX PUMP PRESSURE	BAR	2.5
MAX PUMP FLOW RATE	L / MIN	10
TANK CAPACITY	L	12
CONNECTOR SIZE	IN / OUT	1/4 ² BSP, 19 TPI
DIMENSIONS (L X W X H)	MM	695 X 310 X 285
WEIGHT (APPROX.)	KG.	18 (APPROX.)

CHAMP PULSE 500

500 AMP CAPACITY MIG / FCAW / PULSED MIG / MMA / TIG WELDER INVERTER BASED

TECHNICAL SPECIFICATIONS – MIG WELDING TORCHES

PARAMETER	VALUE		UNIT
MODEL	ADOR HIPRO MIG 502 C E- GAS COOLED	ADOR HIPRO MIG 502 (W) - WATER COOLED	
MAXIMUM CURRENT @ 60% DUTY CYCLE	500 (WITH CO2 GAS), 450 (WITH MIXED GAS)	500 (WITH CO2 GAS), 450 (WITH MIXED GAS)	AMP
TORCH CABLE LENGTH	4	4	METERS
TORCH CABLE TYPE	CO - AXIAL	CO - AXIAL	-
TORCH ADAPTER	EURO	EURO	TYPE
TORCH COOLING	GAS COOLED	WATER	TYPE
SUITABLE FOR WIRE SIZE DIAMETER	0.8, 1.0, 1.2, 1.6	0.8, 1.0, 1.2, 1.6	MM

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.37.401.0461	PULSE MIG/MAG WELDING O/F,MODEL:CHAMP PULSE 500, 5M I/P CABLE, W/F:PULSEFEED 40SFG DETACH WITH SPOOLCOVER, WHEEL, 5M INTERCON ASSLY,TORCH: HIPRO 502C (E)-4M, 6M GASHOSE,5M EARTH CABLE WITH CLAMP, GAS PREHEATER, CO2 REG, 1.2-1.6MM KNURLED ROLLER, TROLLEY
F10.37.401.0462	PULSE MIG/MAG WELDING O/F,CHAMP PULSE 500,5M I/P CABLE, W/F:PULSEFEED 40SFG DETACH WITH SPOOLCOVER, WHEEL, 10M INTERCON ASSLY, TORCH: HIPRO 502C (E)-4M, 11M GASHOSE, 5M EARTH CABLE WITH CLAMP, GAS PREHEATER, CO2 REG, 1.2-1.6MM KNURLED ROLLER, TROLLEY
F10.37.401.0463	PULSE MIG/MAG WELDING O/F, MODEL:CHAMP PULSE 500,5M I/P CABLE,W/F:PULSEFEED 40SFW DETACH WITH SPOOLCOVER, WHEEL,5M INTERCON ASSLY, TORCH: HIPRO 502W (E)-4M, 6M GASHOSE,5M EARTH CABLE WITH CLAMP, GAS PREHEATER, CO2 REG, ROLLERS, WCU, TROLLEY
F10.37.401.0464	PULSE MIG/MAG WELDING O/F, MODEL:CHAMP PULSE 500, 5M I/P CABLE, W/F:PULSEFEED 40SFW DETACH WITH SPOOLCOVER, WHEEL, 10M INTERCON ASSLY, TORCH: HIPRO 502W (E)-4M, 11M GASHOSE, 5M EARTH CABLE WITH CLAMP, GAS PREHEATER, CO2 REG, ROLLERS, WCU, TROLLEY

Welding Equipment

SAW (Submerged Arc Welding Equipment)

MAESTRO 1201 T (F)

1200 AMP CAPACITY SAW WELDER TAP CHANGING DIODE BASED

3 Phase | CV | SAW

Key Attributes

- MAESTRO 1201 (F) / 1201 T (F) outfits are Diode-based / Thyristor-based Submerged Arc Welders suitable for a wide range of automatic welding applications. The welding head is capable of supplying filler and flux metal to the joint for welding using main parts like Welding head, Flux hopper, Flux, Electrode wire feed unit, Electrode, and Flux recovery unit.
- The applications of submerged arc welding include the following:
  - Welding pressure vessels like boilers.
  - Fabricating structural outlines, pipes, earthmoving tools, shipbuilding, railroad construction, and locomotives.
  - Repairing machine parts.

MAESTRO 1201 T (F)

1200 AMP CAPACITY SAW WELDER TAP CHANGING DIODE BASED

SALIENT FEATURES:

- The welder-friendly Tractor or boom mounted welding head with diode-based or thyristorized power sources is perfectly matched and adapted to local conditions, offering a range of models to suit every budget and need.
- The choice of boom mounted, or tractor mounted welding head models is offered with the power source.
- The boom mounted head comes with a choice of manual, semi-motorized, and fully motorized cross slides.
- The 'Dual Star Radial Rectifier' design enables smooth and stepless control of welding voltage for thyristorized systems.
- The diode-based system has provisions for adjusting the open circuit voltage over a wide range through tap changing switches on the front panel.
- Programmed sequential operations of power source, wire feed, and carriage speed control are achieved through built-in solid-state circuitry.

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
POWER SOURCE	PS 1201 T (F)	
STATIC CHARACTERISTICS	CV	TYPE
SUPPLY VOLTAGE,PHASE, FREQUENCY	415 V, 3, 50	VOLTS AC, NO., HZ
INPUT KVA @ 100% duty cycle	63	KVA
RECOMMENDED SWITCH FUSE RATING	TP - 100	AMPS, AC
OPEN CIRCUIT VOLTAGE RANGE (MAX.)	62	VOLTS, DC
WELDING CURRENT RANGE	200 - 1200	AMPS, DC
WELDING CURRENT @ 60%DUTY CYCLE	1200	AMPS, DC
INSULATION	H	CLASS
COOLING	FORCED AIR	TYPE
DIMENSIONS (L X W X H)	1100 X 760 X 1030	MM
WEIGHT	380	KG

MAESTRO 1201 T (F)

1200 AMP CAPACITY SAW WELDER TAP CHANGING DIODE BASED

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE				UNIT
SAW HEAD	WH -15 L1 T (F)	WH -15-01 T (F)	WH -15-02 T (F)	WH -15-03 T (F)	TYPE
MAX. WELDING CURRENT	1500 @ 60%, 1250 @ 100%				AMPS, DC
RECOMMENDED POWER SOURCE	PS 1201 (F) / PS 1201 T (F)				TYPE
RECOMMENDED WIRE DIAMETER SINGLE WIRE	2.0, 2.5, 3.15, 4.0 AND 5.0				MM
SPEED RANGE WIRE FEED	0.5 - 4.0				M / MIN.
SPEED RANGE CARRIAGE	0.1 - 1.5	N. A.	N. A.	N. A.	M / MIN.
INPUT TO CONTROL UNIT	42 V, 1 PH, 50 HZ FROM POWER SOURCE				VOLTS, AC
RANGE OF ADJUSTMENT					
VERTICAL (Z)	140 (MANUAL)	140 (MANUAL)	100 (MOTORIZED)	100 (MOTORIZED)	MM
HORIZONTAL (X) - TRANSVERSE TO] TRAVEL DIRECTION	140 (MANUAL)	140 (MANUAL)	100 (MOTORIZED)	100 (MOTORIZED)	MM
HORIZONTAL (Y) - IN DIRECTION OF TRAVEL		140 (MANUAL)	100 (MOTORIZED)	100 (MOTORIZED)	MM
MAXIMUM SWIVEL					-
TRANSVERSE TO HEAD TRAVEL	±45				DEGREE
PARALLEL TO HEAD TRAVEL	±30				DEGREE
HORIZONTAL SWING	±135				DEGREE
STANDARD BORE FOR SPOOL	285 - 315 (ADJUSTABLE)				MM
WEIGHT OF SPOOL (MAX.)	25				KG
FLUX HOPPER CAPACITY (MAX.)	*10 / 7				KG / LITRES
DIMENSIONS (L X W X H)	1130 X 638 X 730	1500 X 1030 X 580	1500 X 1050 X 600	1500 X 1050 X 600	MM
WEIGHT (WITHOUT FLUX AND WIRE)	68	80	110	110	KG

MAESTRO 1201 T (F)

1200 AMP CAPACITY SAW WELDER TAP CHANGING DIODE BASED

ORDERING CODE

PRODUCT CODE	DESCRTIPTION
F10.36.004.0219	SUBMERGED ARC TRACTOR MOUNTED WELDING OUTFIT (THYRISTOR TECHNOLOGY), MODEL: MAESTRO -1201 T(F) WITH PS-1201 T(F) & WH-15-LI-T(F), NOZZLE (2.5,3.2 &4.0), 70 SQ.MM WELDING CABLE & EARTHING CABLE ASSY (2 IN PARALLEL) & H.D EARTHING CLAMP.
F10.36.004.0220	SUBMERGED ARC BOOM MOUNTED WELDING OUTFIT (THYRISTOR TECH.),MODEL: MAESTRO-1201-01 T(F) WITH PS-1201 T(F) & WH-15-01-T(F), NOZZLE (2.5,3.2 &4.0),15M CONTROL CABLE,70 SQ.MM WELDING & EARTHING CABLE ASSY (2 IN PARALLEL) & H.D EARTHING CLAMP.
F10.36.004.0221	SUBMERGED ARC BOOM MOUNTED WELDING OUTFIT (THYRISTOR TECH.),MODEL: MAESTRO-1201-02 T(F) WITH PS-1201 T(F) & WH-15-02-T(F), NOZZLE (2.5,3.2 &4.0),15M CONTROL CABLE,70 SQ.MM WELDING & EARTHING CABLE ASSY (2 IN PARALLEL) & H.D EARTHING CLAMP.
F10.36.004.0222	SUBMERGED ARC BOOM MOUNTED WELDING OUTFIT (THYRISTOR TECH.),MODEL: MAESTRO-1201-03 T(F) WITH PS-1201 T(F) & WH-15-03-T(F), NOZZLE (2.5,3.2 &4.0),15M CONTROL CABLE,70 SQ.MM WELDING & EARTHING CABLE ASSY (2 IN PARALLEL) & H.D EARTHING CLAMP.

Welding Equipment

OPTIONAL ACCESSORIES

OPTIONAL ACCESSORIES

THYROLUXE 401 / 600 / 1200:

- Welding cables with Electrode Holder, Earthing cable with Earth clamp (50 mm^2 for THYROLUXE 401; 70 mm^2 for THYROLUXE 600; 95 mm^2 for THYROLUXE 1200); Lengths – 5 Meter / 10 Meter.
- In-built VRD Unit.

SUPERGEN 320:

- Welding cables with Electrode Holder, Earthing cable with Earth clamp (50 mm^2 / 70 mm^2). Lengths – 5 Meter / 10 Meter.

RHINO D 500 K4 / RHINO D 2 X 300 K4 / RHINO DUAL 700:

- Welding cables with Electrode Holder, Earthing cable with Earth clamp (50 mm^2 / 70 mm^2). Lengths – 5 Meter / 10 Meter.

CHAMP 250, CHAMP T 400, CHAMP 400 X, CHAMP 600, CHAMP 1200:

- Remote Control Unit (standard 10-meter Length) for CHAMP 250 / CHAMP T 400 / other CHAMP Series machines which do not have Remote Control Unit in standard supply scope. Extended lengths of Remote-Control units with 5 meter increments up to 50-meter length can be offered for CHAMP T 400 and CHAMP 600.
- Welding cables with Electrode Holder, Earthing cable with Earth clamp (25 mm^2 for CHAMP 250; 50 mm^2 for CHAMP T 400 / CHAMP 400 X; 70 mm^2 for CHAMP 600; 95 mm^2 for CHAMP 1200. Lengths – 5 Meter / 10 Meter.
- In-built VRD Unit – for CHAMP 250, CHAMP T 400, CHAMP 600, CHAMP 1200 only

CHAMPTIG 300 P / 400 P / 300 AD / 500 AD

- Handheld or Foot Controlled Remote Unit – 10-meter length.
- Welding cables with Electrode Holder, (50 mm^2 / 70 mm^2). Lengths – 5 Meter / 10 Meter.

MAXIMIG 400 / 600, CHAMPMIG 400 / 500 / 600, CHAMPMULTI 500 / 600, CHAMP PULSE 500.

- Power Source – Wire feeder Interconnection cable of alternate lengths (in 5-meter increments) – up to 15 meter for MAXIMIG 400 / CHAMPMIG 400 / CHAMPMULTI 400; up to 20 meter for CHAMPMIG 500 / CHAMPMULTI 500 / CHAMP PULSE 500.
- Earthing cable with Earth clamp (50 mm^2 for CHAMPMIG 400 / CHAMP MULTI 400; 70 mm^2 for CHAMPMIG 500 / CHAMPMULTI 600 / CHAMP PULSE 500; Lengths – 5 Meter / 10 Meter.
- Gas Preheater with 3-meter cable and suitable plug – 110 V (for use with CO2 Shielding Gas)
- Single stage Gas Regulator with Flow gauge – Argon Regulator / CO2 Regulator

MAESTRO series SAW Equipments:

- Welding cable and Earthing cable assemblies – 70 mm^2 twin parallel / 95 mm^2 twin parallel with connecting lugs at both ends (for Welding Cable) and connecting lug + Heavy duty Earthing clamp (for Earthing cable) – different lengths in increments of 5 meter up to 25 meter.
- Power Source to Welding Head controller control interconnection cable (standard scope – 10 meter) additional lengths in increments of 5 meters up to 20 meters.

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peace of mind™

ADOR WELDING LIMITED

Ador International, Jebel Ali Free Zone Authority (JAFZA) at Dubai, UAE

+971 4320 1176 awloverseas@adorians.com

www.adorwelding.com