



Buddy Arc 200

Portable Inverter Welder for MMA and Scratch TIG

- Portable inverter power source for MMAW and Scratch TIG.
- IGBT based single phase inverter power source.
- Outstanding performance with MSGP electrodes.
- Burns up to 3.15mm MMA electrodes continually.
- Generator compliant – runs on generator power.
- Protected against thermal overloading.

Technical Data	Buddy Arc 200
Mains voltage, V, Ph, Hz	230 ± 10%, 1, 50
Current range, A	5 – 200
Open circuit voltage, V	66
Output at 35% duty cycle, A	200
Output at 60% duty cycle, A	135
Dimensions, l x w x h, mm	360 x 140 x 230
Weight, Kg	7.5
Enclosure class	IP23S
Standards of conformity	IEC 60974 -1, -10



Buddy Arc 400i / 400i XC

Compact and Powerful Inverter MMA Welder

- IGBT based inverter power sources for MMAW and Scratch TIG.
- Adjustable current, arc force and hot start.
- Suits any MMA application – MSGP and LH electrodes by 400i and 6010 by 400i XC as well.
- Current control from panel/remote, higher user convenience.
- Wide mains voltage tolerance – operates over 340 – 460V input supply, stable welding controls.
- Protected against thermal overloading and over/under voltage.

Technical Data	Buddy Arc 400i / 400i XC
Mains voltage, V, Ph, Hz	400 ± 10%, 3, 50
Current range, A	20 – 400
Open circuit voltage, V	68/78 (400i/400i XC)
Reduced OCV (VRD), V	< 35
Output at 60% duty cycle, A	400
Output at 100% duty cycle, A	310
Dimensions, l x w x h, mm	540 x 280 x 510
Weight, Kg	29/31 (400i/400i XC)
Standards of conformity	IEC 60974 -1, -10



Origo Arc 4001i A24

Heavy Duty Inverters for MMA Welding

- Burns MMA electrodes of any class.
- Control panel A24 comes with digital display and finer controls.
- Adjustable arc-force and hot start options available.
- Dust filter and laquered electronics - increased reliability.
- Live TIG start for smooth and safe operation in TIG.

Technical Data	Arc 4001i
Mains supply, Ph x V, Hz	3 x 400±10%, 50
Fuse (slow), A	20
Open circuit voltage, VDC (Max)	91
Welding current range, A	16 - 400
MMA MIG / MAG	20 - 400
TIG	4 - 400
Output at 60% duty cycle, A	320
Type of cooling	Forced Air
Enclosure class	IP 23
Application class	S
Standards of compliance	IEC/EN 60974 -1/-10
Dimensions, l x w x h, mm	652 x 249 x 423
Weight, Kg	40



Caddy Arc 251i A34

Portable inverter power sources for MMA Welding

- Burns up to 4.0 mm electrodes of any class continuously.
- Rugged design - impact resistant polymer design.
- Built-in PFC to eliminate harmonics, digital display, Arc Plus II regulator.
- VRD (Reduced CCV <35V) for enhanced safety.
- Adjustable arc force, hot start and 2 job memories.
- Handles 100m long mains cable.
- LiveTIG Start for smooth and safe operation in TIG.

Technical Data	Caddy Arc 251i
Mains supply, Ph x V, Hz	3 x 400 ± 15%, 50
Fuse (slow), A	16
Open circuit voltage, VDC (Max)	65
Welding current range, A (TIG/MMA)	4 - 250 / 3 - 250
Output at 60% duty cycle, A	190
Enclosure class	IP 23
Application class	S
Standards of compliance	IEC 60974 -1 / -10
Dimensions, l x w x h, mm	418 x 188 x 208
Weight, Kg	10.5



Origo Arc 410c / 650c / 810c A12 Offshore

Chopper Based DC Power Sources for MMAW / AAG / GTAW

- Robust construction to handle tough working conditions.
- Built-in arc force, hot start and anti stick functions.
- Burns electrodes of any class including cellulosic.
- Stepless welding current control and optional remote.
- Mains voltage compensation - stable welding.
- Digital VA meter to display the welding parameters.

Technical Data	OrigoArc 410c	OrigoArc 650c	OrigoArc 810c
Mains supply, Ph x V, Hz	3 x 400±10%, 50	3 x 400±10%, 50	3 x 400±10%, 50
Fuse (slow), A	25	50	63
Open circuit voltage, VDC	56	56	56
Welding current range, A	20 - 400	20 - 650	20 - 800
Output at 60% duty cycle, A	310	490	630
Type of cooling	Forced Air	Forced Air	Forced Air
Enclosure class	IP 23	IP 23	IP 23
Application class	S	S	S
Standards of compliance	EN 60974 -1/-10	EN 60974 -1/-10	EN 60974 -1/-10
Dimensions, l x w x h, mm	1310 x 800 x 780	1310 x 800 x 780	1310 x 800 x 780
Weight, Kg	157	223	245

Special CVCC variants of the above are available in the 400 / 500 / 650A segment.

LFD 1500/3000

Multi-operator power source

- For indoor and site use
- Portable regulator Recode.

Technical Specifications	LFD 1500	LFD 3000
Rectifier		
Input	3 x 415V 50 Hz 87 KVA	3 x 415V 50 Hz 163 KVA
Rated Output @ 60% duty cycle	1500A	3000A
Power Factor	0.93	0.95
Welding Line voltage - selectable	50 - 60 V	50 - 60 V
Weight	540 Kg	720 kg
Dimensions, d x w x h, mm	1020 x 870 x 1434	1020 x 870 x 1434
Control Unit	RC 500	RC 500
Setting Range	6-593	6-593
Enclosure	IP 22	IP 22



EDW 350 / 400 / 500

Engine Driven Welder + Power Unit

- Diesel engine driven welding units for MMA welding and auxiliary power supply unit.
- MMA welding with any class of electrode including cellulosic with long lead.
- Remote control unit is provided as standard to adjust welding parameters, while welding in progress.
- Highly efficient and powerful engine to work under any climatic conditions.
- Needs minimum maintenance except regular wear-parts.



Technical Data	EDW 350	EDW 400	EDW 500
Engine			
Make	Mahindra & Mahindra	Cummins	Cummins
Model	3305GM	S3.8G4	S3.8G4
No. of cylinders	3	4	4
Type of cooling	Water	Water	Water
Starter	12V Lucas	12V Lucas	12V Lucas
Battery capacity, Ah	75	120	120
Governor	Mechanical	Mechanical	Mechanical
Power at 1500 rpm, BHP	30	58	58
Fuel	Diesel	Diesel	Diesel
Fuel tank volume, ltr	75	80	80
Fuel consumption, ltr/hr	3.2	4.5	4.5
Welding Output			
Open circuit voltage, VDC	90	90	90
Welding current range, A	10 - 350	10 - 400	10-500
Output at 60% duty cycle, A	300	400	400
Electrode type	All including cellulosic	All including cellulosic	All including Cellulosic
Electrode size, mm	4.0 / continuous	5.0 / continuous	5.0 / continuous
Auxiliary Output			
3Ph supply, kVA, V/Ph, Hz	7.5, 415 / 3, 50	10, 415 / 3, 50	10, 415 / 3, 50
1Ph supply, kVA, V/Ph, Hz	2.5, 230 / 1, 50	5, 230 / 1, 50	5, 230 / 1, 50
Size			
Dimensions, l x w x h, mm	2600 x 1030 x 1800	2900 x 1400 x 2010	2900 x 1400 x 2010
Weight approximate, Kg	900	1250	1270
Undercarriage with tow bar	2 wheels as standard	2 wheels as standard	2 wheels as standard
Noise Level			
DB at 1 m distance	75	75	75
Compliance	CPCB	CPCB	CPCB



Power Compact 255

Compact MIG / MAG Welding Package

- Compact MIG/MAG with enclosed wire feeder.
- Spot, stitch and continuous welding operations.
- Adjustable burn back control
- Ideal for thin sheet fabrication and automotive industry.

Technical Data	Power Compact 255
Power Source	
Mains supply, Ph x V, Hz	3 x 415, 50
Open circuit voltage, VDC (Max) / steps	16 - 37 / 10
Welding current range, A	30 - 250
Output at 60% duty cycle, A	190
No. of inductance outlets	2
Spot / interval welding time, sec	0.2 - 2
Type of cooling	Forced Air
Dimensions, l x w x h, mm	840 x 375 x 736
Weight, Kg	90
Wire Feeder (Enclosed)	
Wire feed speed, m/min	1.5 - 22
Wire diameter, mm / type	0.8 - 1.2 / MS

Migmatic 250 / Auto Mig 300

Power Source for MIG / MAG Welding

- Rugged and reliable design.
- Continuous welding with 0.8mm wire on MS/SS.
- Auto Mig 300 is specially designed for automotive industry for high speed/high current application on 24x7 basis.

Technical Data	Migmatic 250	Auto Mig 300
Power Source	Migmatic 250	Auto Mig 300
Mains supply, Ph x V, Hz	3 x 415, 50	3 x 415, 50
Open circuit voltage, VDC (Max) / steps	16 - 34 / 10	19-40
Welding current range, A	30 - 250	40-300
Output at 60% duty cycle, A	250	300
Type of cooling	Forced Air	Forced Air
Dimensions, l x w x h, mm	620 x 390 x 580	620 x 390 x 580
Weight, Kg	78	87
Wire Feeder	Migmatic	Migmatic
Wire feed speed, m/min	1.5 - 22	1.5 - 22
Wire diameter, mm / type	0.8 - 1.2 / MS	0.8 - 1.2 / MS
Weight, Kg	6	6



Auto K 400 / 600

Thyristorised Power Sources for MIG / MAG Welding

- Compact yet thyristorised rugged power sources for high quality manual or mechanized MIG/MAG.
- Hex phase rectification gives almost ripple free welding output free from spatter.
- Fresh Tip Treatment (FTT) control eliminates formation of globules at the wire tip during weld stop condition.
- Fresh Arc Start (FAS) control instantaneously enhances the arc-striking rate for better arc striking.
- Self hold circuitry with crater control module.
- Pre-flow of shielding gas with burn-back control for optimum utilizations.
- Protected against thermal overloading and single phasing.
- An ideal choice for MIG/MAG welding application with enhanced productivity and quality.


Technical Data	Auto K 400	Auto K 600
Power Source		
Mains supply, Ph x V, Hz	3 x 415±10%, 50	3 x 415±10%, 50
Open circuit voltage, VDC (Max)	55	68
Welding current range, A	60 - 400	60 - 600
Output at 60% duty cycle, A	400	600
Output at 100% duty cycle, A	310	470
Adjustment of welding current	Stepless	Stepless
Remote current regulator type	RCU-AUTO K 400	RCU-AUTO K 400
Type of cooling	Forced Air	Forced Air
Dimensions, l x w x h, mm	675 x 350 x 690	617 x 455 x 850
Weight, Kg	122	160
Wire Feeder	Servo - I	Servo - II
Drive system	DC motor	DC motor
Speed control	Stepless	Stepless
Wire feed mechanism	Double roll quick changeover type	Double roll quick changeover type
Length, m (Standard)	5	5
Length, m (Optional)	10 / 15 / 20	10 / 15 / 20 / 30
Wire feed speed, m/min	1.5 - 16 m/min	1.5 - 16 m/min
Wire diameter, mm / type	0.8 - 1.2	0.8 - 1.6
Weight, Kg	7	9



Auto K 400 / 600 Synergic

Thyristorised Power Sources with Synergic Feature for MIG / MAG

- Synergic feature coupled with the features of standard Auto K 400 to operate in manual / synergic mode.
- Software based auto selection of parameters using inputs of wire diameter, material and shielding gas.
- User settable non-volatile and editable job memories.
- Separate adjustment for crater.
- LCD display for welding parameters.
- Mounted on rubberized wheels for better mobility along with gas cylinder base.

Technical Data	Auto K 400 Synergic	Auto K 600 Synergic
Power Source		
Mains supply, Ph x V, Hz	3 x 415±10%, 50	3 x 415 50 Hz
Open circuit voltage, VDC (Max)	55	64
Welding current range, A	60 - 400	60 - 600
Output at 60% duty cycle, A	400	600
Output at 100% duty cycle, A	310	470
Adjustment of welding current	Stepless	Stepless
Type of cooling	Forced Air	Forced Air
Dimensions, l x w x h, mm	930 x 480 x 800	675 x 455 x 850
Weight, Kg	115	180
Remote Current Regulator type Synergic Pendant	RCU-AUTO K 400	RCU AUTO K 600
Wire and gas combinations for operation in the synergic mode	Wire Wire Dia Gas Fe 0.8 / 1.2 / 1.6 CO2 SS 0.8 / 1.2 / 1.6 Argon Mix Al 0.9 / 1.2 / 1.6 Argon	
No. of job memories (User-defined)	9	9
Wire Feeder	Servo - I	Servo - 11
Drive system	DC motor	DC motor
Speed control	Stepless	Stepless
Wire feed mechanism	2-roll quick changeover type 4-roll drive optional	2-roll quick changeover type 4-roll drive optional
Length of interconnection, mtr	5	5
Wire feed speed, m/min	1.5 - 16 m/min	1.5 - 16 m/min
Wire diameter, mm	0.8 - 1.2	0.8 - 1.6
Wire type	MS / Al / FC	MS / Al / FC
Weight, Kg	7	9



SCR 400(S)

MIG / MAG Welding units for Shipyard

- Heavy-duty thyristorised power sources designed specially to meet the welding applications for shipyards.
- Wire feeder interconnection up to 50m available.
- Suitable for all types of wires - Solid/flux-cored.
- Light weight and compact wire feeder for reaching all locations.
- Standard 2-roll quick changeover mechanism or optional 4-roll drive.
- Outstanding welding performance.

Technical Data	SCR 400(S)
Power Source	
Mains supply, Ph x V, Hz	3 x 415 ± 10%, 50
Welding current - Max, A	400
Dimensions, l x w x h, mm	710 x 435 x 760
Weight, Kg	149
Wire Feeder	Servo-I
Wire feed mechanism	2-roll quick changeover type
	4-roll drive optional
Weight, Kg	7

Buddy Mig 500i

Rugged and Reliable Inverter MIG/MAG

- IGBT based Inverter MIG/MAG.
- High duty cycle – 387A @ 100%, ideal for operating on 24 x 7.
- Stepless inductance – better arc performance.
- Feeder mounted remote – easy parameter control.
- Welding voltage and wire feed speed by remote and crater voltage and crater current control on panel.
- Versatile – Excellent performance on MS, SS and Al.
- Wide mains voltage tolerance – operates over 340 – 460V input supply, stable welding controls.
- Protected against thermal overloading and over/under voltage.

Technical Data	Buddy Mig 500i
Power Source	
Mains voltage, V, Ph, Hz	400 ± 10%, 3, 50
Current range, A	50 – 500
Open circuit voltage, V	50
Output at 60% duty cycle, A	500
Output at 100% duty cycle, A	387
Dimensions, l x w x h, mm	610 x 335 x 640
Weight, Kg	56
Standards of conformity	IEC 60974 -1, -10
Wire Feeder	Buddy Feed 402
Wire feed speed, m/min	1.5 – 20
Wire diameter, mm	0.8 – 1.6
Dimensions, l x w x h, mm	460 x 200 x 280
Weight, Kg	9



MIG C3000i U6 MIG 3001i/4001i + Aristo Feed 3004w U6

- Lower power rating
- Higher rated current at 100% duty cycle for continuous usage of 0.8mm wire.
- Digital Display
- Pulse and Synergic Pulse MIG / MAG
- Remote control option



Technical Data	MIG C3000i	MIG 3001i (w)	MIG 4001i (w)
Mains voltage V, Hz	400, 3-50 / 60	4-300, 50/60	400, 3-50/60
Fuse, slow A	16	16	20
Mains cable, Ø mm ²	4x4	4x4	4x4
Setting range A MIG / MAG	16-300	16-300	20-400
MMA	16-300	16-300	16-400
TIG	4-300	4-300	4-400
Permitted load MIG / MAG at			
35% duty cycle A/V	300	300	400
60% duty cycle A/V	240	240	320
100% duty cycle A/V	200	200	250
Open circuit voltage V	60	60	91
Open circuit voltage (VRD active)	35	35	35
Open circuit power W	30	30	60
Dimensions l x w x h, mm	625x410x420	652x249x423	652x249x423
Water colling unit	CoolMidi 1800	CoolMidi 1000	CoolMidi 1000
Weight	38	33	43.5
Cooling unit (Empty / Full) kg	19 / 23	14 / 19	63.5 (in-built cooler)
Insulation class	H	H	H
Enclosure class	IP 23	IP 23	IP 23
Application class	S	S	S
Standards	IEC/EN 60974-1,-10	IEC/EN 60974-1,-10	IEC/EN 60974-1,-10
Wire feeder	In-built 4-roll	External 4-roll	External 4-roll
Model (Feed)	Enclosed	3004w / 4804w	3004w / 4804w
Wire Feed Speed, m/min	0.8-25	0.8-25	0.8-25
Wire diameter, mm	0.6-1.2	0.6-1.2 (3004w) 0.6-2.4 (4804w)	0.6-1.2 (3004w) 0.6-2.4 (4804w)
Wire type	MS / SS / AL	MS / SS / AL	MS / SS / AL
Control Panel / Pendant	U6	U6 / U8-2 Plus	U6 / U8-2 Plus



Aristo Mig 5000i (w)

Heavy-duty Multi-process Inverter Power Sources for MIG/MAG (Pulse / Synergic / Non-Pulse), MMA Welding and Arc Gouging

- Inverter power source for applications demanding high level of performance.
- Robust construction, body made of aluminium to prevent corrosion and handle tough working environments.
- Both Cooling Fan and Pump function on demand, extremely low no-load power consumption.
- Communication system is based on CAN-bus for efficient control with minimization of cables.
- Dust filter to handle tough and dirty working environment and avoid grinding dust and metal particles inside the chassis of the power source.
- Suitable for both manual and mechanized applications with outstanding welding characteristics.

Technical Data	Mig 5000i
Power Source	
Mains supply, Ph x V, Hz	3 x 400±10%, 50
Open circuit voltage, VDC / VRD activated	68 - 88 / <35
Welding current range, A	16 - 500
Output at 60% duty cycle, A	500
Output at 100% duty cycle, A	400
Type of cooling	Forced Air
Enclosure class	IP 23
Application class	S
Standards of compliance	IEC/EN 60974 -1, -2, -10
Dimensions, l x w x h, mm	625 x 394 x 476 625 x 394 x 776*
Weight, Kg	68 / 88*
Cooling Unit*	
Cooling power, W**	2500*
Coolant quantity, ltr	5.5*
Maximum water flow, ltr/min	2*

* Applies to water cooled models Aristo Mig 5000iw only

** At 40 Deg C temperature difference and flow rate 1.5 ltr/min



Aristo Mig U4000iw / U5000iw

Heavy-duty Multi-process Inverter Power Sources for MIG/MAG (Pulse / Synergic / Non-Pulse), MMA Welding and Arc Gouging (U5000iw)

- Inverter power source for applications demanding high level of performance.
- Robust construction, body made of aluminium to prevent corrosion and handle tough working environments.
- Both Cooling Fan and Pump function on demand, extremely low no-load power consumption.
- VRD for enhanced operator safety.
- Compatible Feeder / Control Panel Combination.
- Communication system is based on CAN-bus for efficient control with minimization of cables.
- Dust filter to handle tough and dirty working environment and avoid grinding dust and metal particles inside the chassis of the power source.
- Suitable for both manual and mechanized applications with outstanding welding characteristics.

Technical Data	Mig U4000iw	Mig U5000iw
Power Source		
Mains supply, Ph x V, Hz	3 x 400±10%, 50	3 x 400±10%, 50
Open circuit voltage, VDC (Max)	80	80
Welding current range, A	16 - 400 / 4 - 400#	16 - 500 / 4 - 500#
Output at 60% duty cycle, A	320	500
Output at 100% duty cycle, A	250	400
Type of cooling	Forced Air	Forced Air
Enclosure class	IP 23	IP 23
Application class	S	S
Standards of compliance	IEC/EN 60974 -1 IEC/EN 60974 -10	IEC/EN 60974 -1 IEC/EN 60974 -10
Dimensions, l x w x h, mm with cooling unit	625 x 394 x 776	625 x 394 x 776
Weight (Power source + Cooling unit), Kg	63.5 + 20	71 + 20
Cooling Unit		
Cooling power, W*	2500	2500
Coolant	50% water and 50% glycol	50% water and 50% glycol
Coolant quantity, ltr	5.5	5.5
Maximum water flow, ltr/min	2	2

Current range for TIG

* At 40 Deg C temperature difference and flow rate 1.5 ltr/min



Feed 3004w / 4804w U6

Feed 3004w / 4804w + Pendant U8_2 Plus

Wire Feeders for Aristo Mig U4000iw / U5000iw

- Heavy-duty construction with 4-roll drive.
- All feed rollers are geared and grooved for maximum grip and positive force to facilitate better feeding.
- Digital V/A meter for displaying welding parameters.
- Remote control available optionally.
- Fully enclosed wire spool to protect the wire spool.

Technical Data	Feed 3004w	Feed 4804w
Mains supply, Ph x V, Hz	1 x 42, 50	1 x 42, 50
Drive system	4-Roll Drive	4-Roll Drive
Length of interconnection, m	1.7/5/10/15/25/35	1.7/5/10/15/25/35
Max. diameter of wire spool, mm	330 / 440**	330 / 440**
Wire feed speed, m/min	0.8 - 25	0.8 - 25
Wire type	MS / Al / FC	MS / Al / FC
Wire diameter, mm	0.6 - 1.6	0.6 - 2.4
Enclosure class	IP23	IP23
Standards of compliance	IEC/EN 60974 -5/-10	IEC/EN 60974 -5/-10
Dimensions, l x w x h, mm	690 x 275 x 420	690 x 275 x 420
Weight, Kg	15	19
Coolant - max pressure, bar	5*	5*

** With additional bobbin adapter.

Technical Data	Control Panel U6	Pendant U8_2 Plus
2/4 Stroke	X	X
Crater filling	X	X
Adjustable burn back time	X	X
Creep start	X	X
Hot start	X	X
Inductance	X	X
Gas pre/post flow	X	X
Digital V/A meters	X	X
Gas purge/wire inching	X	X
Pre-programmed synergic lines	X (60)	X (>230)
Memory 10 set	X	
Memory 255 set		X
Pulse / synergic pulse	X	X
Create synergic lines		X

Can also be used with Aristo Mig 4000i / 5000i without TIG functionalities



MIG Torches - Air / Water Cooled

PSF 250 / 305 / 405 / 505 3/4.5m Air Cooled

PSF 410w / 510w 3/4.5m Water Cooled

- Heavy-duty construction.
- Ergonomically designed handle.
- All torches come with EURO connection as standard.
- All torches come with 50° swan neck as standard.
- Straight neck and 60° swan neck available optionally.
- 360° swiveling facility.
- Wide range of wear parts e.g. liners, contact tips and gas nozzles available for welding in all positions.
- Conforms to IEC / EN 60974-7.

Technical Data	PSF 250	PSF 305	PSF 405	PSF 505
Type of cooling	Air/Gas	Air/Gas	Air/Gas	Air/Gas
Wire diameter, mm	0.6 - 1.0	0.8 - 1.2	0.8 - 1.6	1.0 - 2.4
Wire type	MS/Al/FC	MS/Al/FC	MS/Al/FC	MS/Al/FC
Rating, A @ % duty cycle	250@60%	315@60%	380@60%	475@60%
Length, m	3/4.5	3/4.5	3/4.5	3/4.5
Weight, Kg	1.8/2.5	2.5/3.3	3.1/4.2	3.9/5.3

Technical Data	PSF 410w	PSF 510w
Type of cooling	Water	Water
Wire diameter, mm	0.8 - 1.6	1.0 - 2.4
Wire type	MS/Al/FC	MS/Al/FC
Rating, A @ % duty cycle	400@100%	500@100%
Length, m	3/4.5	3/4.5
Weight, Kg	3.0/3.9	3.3/4.0



EasyWeld SSR400-T / 400T-Pulse

Thyristorised Power Source for DC TIG and MMA

- Robust and compact construction.
- Outstanding welding characteristics in TIG / MMA.
- Hex-phase rectification gives almost ripple free output.
- Suitable for all positional welding.
- True vertical welding characteristics.
- Built-in HF for smooth start in TIG.
- Higher OCV for better arc striking.
- Heavy-duty design, suitable for manual well as mechanized TIG applications of any kind.
- Built-in hot start and anti-stick in MMA improves droplet separation from the electrode and improves weldability.
- Remote control for adjustment of welding current while welding in progress.

Technical Data	EasyWeld SSR 400-T
Mains supply, Ph x V, Hz	3 x 415±10%, 50
Open circuit voltage, VDC (Max)	100
Welding current range, A	10 - 400
Output at 60% duty cycle, A	400
Output at 100% duty cycle, A	310
Class of insulation	H
Type of cooling	Forced Air
Dimensions, l x w x h, mm	675 x 350 x 690
Weight, Kg	155

* 400T Pulse Comes with Pulsing unit.



Buddy Tig 160

Portable Inverter Welder for DC TIG and MMA

- Portable inverter power source for DC TIG and MMA.
- IGBT based single phase inverter power source.
- Choice of TIG starting by HF or Scratch Start.
- 2/4 stroke control in TIG.
- Current and arc force control in MMA.
- Generator compliant – runs on generator power.
- Protected against thermal overloading.

Technical Data	Buddy Tig 160
Mains voltage, V, Ph, Hz	230 ± 10%, 1, 50
Current range, A	5 – 160
Open circuit voltage, V	58
Output at 25% duty cycle, A	160
Output at 60% duty cycle, A	100
Dimensions, l x w x h, mm	310 x 140 x 230
Weight, Kg	6
Enclosure class	IP23S
Standards of conformity	IEC 60974 -1, -10



Caddy TIG 2200i TA33 / TA34

Single Phase Portable Inverters for DC TIG / Pulse TIG / MMA Welding

- Rugged design - impact resistant polymer design.
- Built-in PFC to counter harmonics, Arc Plus II regulator for smooth output, handles 100m long mains cable.
- TIG - Start by HF/Lift Arc, up/down slope, pre/post gas.
- TA33 - Automatic setting of parameters based on sheet thickness.
- TA34 - Manually set pulse parameters in TIG.

Technical Data	Caddy Tig 2200i
Mains supply,	1 x 230 V, 50 Hz
Fuse (slow), A	16
Open circuit voltage, VDC (Max)	72
Welding current range, A (TIG/MMA)	4 - 220 / 3 - 220
Output at 60% duty cycle, A	150
Enclosure class	IP23
Application class	S
Standards of compliance	IEC 60974 -1 / -10
Dimensions, l x w x h, mm	488 x 188 x 208
Weight, Kg	9.4
Cooling Unit	Cool Mini
Coolant Vol., Ltr.	2.2
Max. flow, Ltr./min	2



Origo Tig 3001i TA24

Inverter Power Sources for DC TIG/Pulse TIG/MMA

- Inverter power sources for MMA, DC TIG (TA23) and also DC Pulse TIG (TA24) with excellent welding output.
- Robust and compact construction.
- Digital display of the welding parameters.
- 2 job memories (TA24).
- All positional welding.
- Burns MMA electrodes of any class of size up to 4.0 mm continuously.
- Trolley, remote hand / foot control optional.
- 3001iw variant also available with cooling unit.

Technical Data	Tig 3001i (TA24)
Power Source	Tig 3000i
Mains supply, Ph x V, Hz	3 x 400±10%, 50
Open circuit voltage, VDC	60
Open circuit voltage direct (VRD active), v	35
Welding current range, A (TIG)	4 - 300
Welding current range, A (MMA)	16 - 300
Output at 60% duty cycle, A	240
Output at 100% duty cycle, A	200
Type of cooling	Forced Air
Enclosure class	IP 23
Application class	S
Dimensions, l x w x h, mm	652 X 249 X 423
Weight, Kg	33.5
Standards of compliance	IEC/EN 60974 - 1/-3 / -10
Control Panel	TA24
TIG start mode	HF / Lift Arc
2/4 Stroke	2 / 4
Slope up, sec	0 - 10
Slope down, sec	0 - 10
Gas pre-flow, sec	0 - 5
Gas post-flow, sec	5 - 25
Pulse/background current, A	4 - 300
Pulse/background time, sec	0.01 - 2.5
Cooling Unit	CoolMidi 1000
Cooling power, W*	1100
Coolant volume, ltr	5
Max flow, ltr/min	4
Dimensions, l x w x h, mm including cooling unit	714 x 249 x 693
Weight (including cooling unit), Kg	54
Standards of compliance	IEC/EN 60974-2/10

* At 40 Deg C temperature difference and flow rate 1 ltr/min



Aristo Tig 4000iw TA6

Inverter Power Sources for DC TIG / Pulse TIG / MMA

- Heavy-duty power sources for MMA, DC TIG and also DC Pulse TIG (TA6) with excellent welding output.
- Robust and compact construction.
- Dust filter to withstand tough working environment.
- 10 job memories (TA6).
- Welding thin sheets using pulse TIG (TA6).
- All positional welding with high efficiency and quality.
- Suitable for manual and mechanized TIG applications.
- Burns MMA electrodes of any class of size up to 6.3 mm.
- Trolley, remote hand / foot control optional.

Technical Data	Tig 4000iw (TA6)
Power Source	Tig 4000i
Mains supply, Ph x V, Hz	3 x 400±10%, 50
Open circuit voltage, VDC (Max)	90
Welding current range, A (TIG)	4 - 400
Welding current range, A (MMA)	16 - 400
Output at 60% duty cycle, A	320
Output at 100% duty cycle, A	250
Type of cooling	Forced Air
Enclosure class	IP 23
Application class	S
Dimensions, l x w x h, mm with Cooling Unit	625 x 394 x 776*
Weight, Kg	79*
Standards of compliance	IEC / EN 60974 -1 / -3 / -10
Cooling Unit*	
Cooling power, W**	2000
Coolant volume, ltr	5.5
Max flow, ltr/min	2
Control Panel	TA6
TIG start mode	HF / Lift Arc
2/4 Stroke	2 / 4
Slope up, sec	0 - 5
Slope down, sec	0 - 10
Gas pre-flow, sec	0 - 5
Gas post-flow, sec	5 - 25
Pulse / background current, A	4 - 400
Pulse / background time, sec	0.001 - 0.1

* Applies to water cooled models Aristo Tig 4000iw TA6 only

** At 40 Deg C temperature difference and flow rate 1 ltr/min



Caddy Tig 2200i AC/DC, TA33 / TA34 AC/DC

Inverter Power Sources for AC/DC TIG / DC Pulse TIG / MMA

- Portable power sources with wide functionalities.
- Digital display, 2 job memories.
- TA33 - parameters adjusted based on plate thickness.
- TA34 - manually adjust all parameters.
- Burns MMA electrodes of any class of size up to 3.15 mm continuously.
- Trolley and remote control available optionally.

Technical Data	Tig 2200i AC/DC (TA33 AC/DC)	Tig 2200i AC/DC (TA34 AC/DC)
Power Source	Tig 2200i	Tig 2200i
Mains supply, Ph x V, Hz	1 x 230±10%, 50	1 x 230±10%, 50
Open circuit voltage,	55-60	55-60
Open circuit voltage direct, (VRD active), v	35	35
Welding current range, A (TIG)	4 - 220	4 - 220
Welding current range, A (MMA)	16 - 160	16 - 160
Output at 60% duty cycle, A	150	150
Type of cooling	Forced Air	Forced Air
Enclosure class	IP 23	IP 23
Application class	S	S
Dimensions, l x w x h, mm	418 X 188 X 345	418 X 188 X 345
Weight, Kg	15	15
Standards of compliance	IEC/EN 60974 -1/-3 IEC/EN 60974 -10	IEC/EN 60974 -1/-3 IEC/EN 60974 -10
Control Panel	TA33	TA34
TIG start mode	HF / Lift Arc	HF / Lift Arc
2/4 Stroke	2 / 4	2 / 4
Slope up, sec	0 - 10	0 - 10
Slope down, sec	0 - 10	0 - 10
Gas pre-flow, sec	Preset	Preset
Gas post-flow, sec	0 - 10	5 - 25
Pulse frequency DC, sec	--	0.01 - 2.5
Frequency AC, Hz	--	10 - 150
AC balance, %	--	50 - 98
Plate thickness, mm	1 - 5	--
Cooling Unit	CoolMini	CoolMini
Cooling power, W*	700	700
Coolant volume, ltr	2.2	2.2
Max flow, ltr/min	2	2
Dimensions, l x w x h, mm	418 x 188 x 137	418 x 188 x 137
Weight (empty), Kg	4.5	4.5
Standards of compliance	IEC/EN 60974 -2/-10	IEC/EN 60974 -2/10

* At 40 Deg C temperature difference and flow rate 1 ltr/min



Origo Tig 3000i AC/DC, TA24 AC/DC

Inverter Power Sources for AC/DC TIG / DC Pulse TIG / MMA

- Designed to weld any metal e.g. aluminium, copper, stainless steel and its alloys with high performance.
- Digital display, 2 job memories.
- QWave - High performance AC welding with low noise.
- Electrode preheating - excellent arc start and extended electrode life-time.
- Energy save made - cooling fan and pump on demand.
- Burns MMA electrodes of any class of size up to 4.0 mm continuously.
- Trolley, remote hand / foot control optional.

Technical Data	Tig 3000i AC/DC, TA24 AC/DC
Mains supply, Ph x V, Hz	3 x 400±10%, 50
Open circuit voltage, V	54-64
Welding current range, A (TIG)	4 - 300
Welding current range, A (MMA)	16 - 300
Output at 60% duty cycle, A	240
Output at 100% duty cycle, A	200
Type of cooling	Forced Air
Enclosure class	IP 23
Application class	S
Dimensions, l x w x h, mm	652 X 412 X 423
Weight, Kg	42
Standards of compliance	IEC/EN 60974 -1 / -3 / -10
TIG start mode	HF / Lift Arc
2/4 Stroke	2 / 4
Slope up, sec	0 - 10
Slope down, sec	0 - 10
Gas pre-flow, sec	0 - 5
Gas post-flow, sec	5 - 25
Pulse / background current, A	4 - 300
Pulse / background time, sec	0.01 - 2.5
AC balance, %	50 - 98
AC frequency, Hz	10 - 152
Electrode preheating	1 - 100
Cooling Unit	CoolMidi 1800
Cooling power, W*	1800
Coolant volume, ltr	4.2
Max flow, ltr/min	4
Dimensions, l x w x h, mm	710 x 385 x 208
Weight (empty), Kg	19
Standards of compliance	IEC/EN 60974 -2 / -10

* At 40 Deg C temperature difference and flow rate 1 ltr/min



Origo Tig 4300iw AC/DC, TA24 AC/DC

Heavy-duty Inverter Power Sources for Manual / Mechanized TIG (AC/DC TIG / DC Pulse TIG) and MMA Welding

- Designed to weld any metal e.g. aluminium, magnesium, copper and its alloys, MS and SS with high performance.
- Robust construction, Digital display, 2 job memories.
- QWave - High performance AC welding with low noise.
- Electrode preheating - excellent arc start and extended electrode life-time.
- VRD - Voltage Reduction Device, safety feature in MMA.
- Energy save made - cooling fan and pump on demand.
- Burns MMA electrodes of any class of size up to 6.3 mm.
- Arc force, hot start, polarity switch for welding in MMA.
- Trolley and remote hand / foot control optional.

Technical Data	Tig 4300iw AC/DC, TA24 AC/DC
Mains supply, Ph x V, Hz	3 x 400±10%, 50
Open circuit voltage, without VRD V (Max)	83
Open circuit voltage direct, (VRD activated), v	<35
Welding current range, A (TIG)	4 - 430
Welding current range, A (MMA)	16 - 430
Output at 60% duty cycle, A	400
Output at 100% duty cycle, A	315
Type of cooling	Forced Air
Enclosure class	IP 23
Application class	S
Dimensions, l x w x h, mm	625 x 394 x 776
Weight, Kg	95
Standards of compliance	IEC/EN 60974-1/-2/-3/-10
TIG start mode	HF / Lift Arc
2/4 Stroke	2 / 4
Slope up, sec	0 - 10
Slope down, sec	0 - 10
Gas pre-flow, sec	0 - 5
Gas post-flow, sec	5 - 25
Pulse / background current, A	4 - 430
Pulse / background time, sec	0.01 - 2.5
AC balance, %	50 - 98
AC frequency, Hz	10 - 152
Electrode preheating manual, MS	15 - 100
Cooling Unit	Built-in
Cooling power, W*	2000
Coolant volume, ltr	5.5
Max flow, ltr/min	2

* At 40 Deg C temperature difference and flow rate 1.0 ltr/min



TIG Torches - Air / Water Cooled

TXH 201 4/8m Air Cooled

TXH 251w/400w/400w HD 4/8m Water Cooled

TXH 201r 4/8m Air Cooled with Remote Functions

TXH 251w/401w/401w HD 4/8m Water Cooled with Remote Functions

TXH 201V 4/8m Air Cooled for Scratch TIG

- Rugged construction - trouble free operation with minimum maintenance.
- Ergonomically designed handle.
- Effective cooling system.
- All torches come with OKC connection as standard.
- TXH 201r / 251wr / 401wr / 401wr HD TIG torches available with remote control for CAN-bus based TIG machines i.e. for Caddy Tig 2200i, Caddy Tig 2200i AC/DC, Origo Tig 3001i, Origo Tig 3000i AC/DC, Aristo Tig 4000i and Origo Tig 4300iw AC/DC.
- Gas valve mounted TIG torches TXH 150V/200V for scratch TIG using rectifiers.
- Wide range of wear parts e.g. collet, collet body, nozzle, and gas lens available for welding in all positions.
- All the TIG torches conform to international standard IEC/EN 60974-7.

Technical Data	TXH 201 / 201r / 201V
Type of cooling	Air / Gas
Connection	OKC 50
Size of TIG rod, mm	1.0 - 4.0
Rating, A@% duty cycle	200 @ 35%
Length, m	4 / 8

Technical Data	TXH 251w / TXH 251wr	TXH 401w TXH 401wr	TXH 401w HD / TXH 401wr HD
Type of cooling	Water	Water	Water
Connection	OKC 50	OKC 50	OKC 50
Size of TIG rod, mm	1.0 - 3.2	1.0 - 4.8	1.0 - 4.8
Rating, A@% duty cycle	250 @ 60%	400 @ 35%	430 @ 35%
Length, m	4 / 8	4 / 8	4 / 8



LPH 50 / 80 / 120

Rugged Power Sources for Air Plasma Cutting

- Faster and economical on Al, SS and CS below 20 mm.
- Cutting can be done from gauge thickness to thick plates.
- Very safe and convenient.
- No distortion even on sheets below 6 mm.
- Light weight torches make cutting effortless.
- Circle cutting attachments and available optionally.
- Trolley for straight line cutting using manual PT-25/27 cutting torch is available optionally.

Technical Data	LPH 50	LPH 80	LPH 120
Mains supply, PhxV, Hz	3x415, 50	3x415, 50	3x415, 50
OCV, VDC (Max)	320	310	310
Output@% duty cycle, A	--	--	--
Pressure, bar	4.5 - 7	4.5 - 7	4.5 - 7
Cutting capacity, mm	12/15*	25/35*	35/45*
Enclosure class	IP23	IP23	IP23
Type of cooling		Forced Air	Forced Air
Dimensions, lxwxh, mm	680x325 x515	760x390 x845	760x390 x845
Weight, Kg	89	131	167
Torch/length, m	PT-27/7.6	PT-27/7.6	PT-25/7.6

* Quality cut / sever capacity



PowerCut 900 / 1600

Inverter Power Sources for Air Plasma Cutting

- Inverter based power source, excellent cutting output.
- Robust and compact construction.
- Cuts thin sheets of gauge thickness to thick plates.
- Cutting packages with mechanized cutting torch also available for PC-1600.
- Straight torch Circle cutting attachments are available optionally.

Technical Data	PC-900	PC-1600
Mains supply, PhxV, Hz	3x400, 50	3x400, 50
OCV, VDC (Max)	275	278
Output@% duty cycle, A	60@60%	90@60%
Air supply, ltr/min / bar	150/5.2	165/5.5
Cutting capacity, mm	22/32**	38/45**
Type of cooling	Forced Air	Forced Air
Dimensions, lxwxh, mm	516x275 x409	800x318x419
Weight, Kg	39.5	42.7
Manual cutting torch	PT 38	PT-38
Torch length, m	7.6/15.2	7.6/15.2

* Also available in 3 x 400V version

** Quality cut / sever capacity



CPRA 800(S) / 1200(S) CPRA 1000T / 1200T

Power Sources for SAW

- Rugged construction with sheet metal body, mounted on rubberized wheels.
- Heavy-duty construction, designed for continuous applications up to 1000 Amps.
- 4-step voltage control in coarse and fine mode.
- Mains voltage compensation ensures minimal fluctuation in arc voltage.
- Built-in protection against thermal overloading.
- Power and control units are housed separately for the easy of servicing.



SAW Tractor LW - Tractor Mounted Welding Head

- Heavy-duty design ensures stable wire feeding and good welding output.
- Available in standard tractor mountable version and optional boom mountable version.
- Nozzle designed suitably for a no. of applications e.g. linear / fillet welding etc.
- User-friendly control panel with controls within easy reach of operator, for adjustment of parameters, while welding in progress.
- Creep feed start for non-explosive and smooth start of the welding.



Technical Data	CPRA 800(S)	CPRA 1200(S)	CPRA 1000T	CPRA 1200T
Power Source				
Mains supply, Ph x V, Hz	3 x 415, 50	3 x 415, 50	3 x 415, 50	3 x 415, 50
Open circuit voltage, VDC	22 - 55	30 - 60	59	59
Output at 100% duty cycle, A	800	1000	850	950
Type of cooling	Forced Air	Forced Air	Forced Air	Forced Air
Dimensions, l x w x h, mm	960 x 760 x 880	1000 x 800 x 900	830 x 670 x 1400	830 x 670 x 1400
Weight, Kg	325	375	440	440
Welding Head	SAW Tractor LW	SAW Tractor LW	SAW Tractor LC	SAW Tractor LC
Wire (single) diameter range, mm	2.4 - 5.0 / 6.3*	2.4 - 5.0 / 6.3*	2.4 - 5.0 / 6.3*	2.4 - 5.0 / 6.3*
Wire feed speed, m/min	0.5 - 4.5	0.5 - 4.5	0.5-4.5	0.5-4.5
Welding current range, A	200 - 1200	200 - 1200	300 - 1000	300 - 1200
Vertical adjustment, mm	100	100	140	1400
Swivel arrangement, degree	180°	180°	360°	360°
Speed range of tractor, m/min	0 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5
Wheel center of tractor, mm	350	350	350	350
Dimensions, l x w x h, mm	1368 x 410 x 1145	1368 x 410 x 1145	1368 x 410 x 1145	1368 x 410 x 1145

* Optional

Welding Automation

Thyristorised SAW Power Sources - DC

LAF 635 / 1000 / 1000M / 1250 / 1250M / 1600 / 1600M

- Excellent welding characteristics throughout the entire current and voltage.
- Good arc stability at low as well as high voltages.



	LAF 635	LAF 1000	LAF 1000M	LAF1250M	LAF 1250M	LAF 1600M	LAF 1600M
Mains supply, V/Hz	400/50-60	400/50-60	400/50-60	400/50-60	400/50-60	400/50-60	400/50-60
Max output at 60% duty cycle, A	800/44	1000/44	1000/44	-	-	-	-
Max output at 100% duty cycle, A	630/44	800/44	800/44	1250/44	1250/44	1600/44	1600/44
Setting range, A/V, MIG/MAG	50/17-630/44	50/17-1000/45	50/17-1000/45	60/17-1250/44	60/17-1250/44	-	-
Setting range, A/V, SAW	30/21-800/44	40/22-1000/45	40/22-1000/45	40/22-1250/44	40/22-1250/44	40/22-1600/46	40/22-1600/46
Open circuit voltage, V	54	52	52	51	51	54	54
No load power, W	150	145	145	220	220	220	220
Efficiency at max current	0.84	0.84	0.84	0.87	0.87	0.86	0.86
Power factor at max current	0.90	0.95	0.95	0.92	0.92	0.87	0.87
Voltage, 3 ph 60 Hz, V	400/415	400/415/500	230/400/415/500	400/415/500	230/400/415/500	400/415/500	230/400/415/500
Voltage, 3 ph 60 Hz, V	440	400/440/550	230/400/440/550	400/440/550	230/400/440/550	400/440/550	230/400/440/550
Endosure class, protection	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
External dimensions, LxWxH, mm	670x490x1090	646x552x1090	646x552x1090	774x598x1428	774x598x1428	774x598x1428	774x598x1428
Weight, kg	260	330	330	490	490	585	585



Thyristorised SAW Power Sources - AC

TAF 800 / 1250

- Heavy-duty thyristorised AC power sources with square wave output.
- Excellent arc ignition characteristics and good welding properties.
- Ideal for SAW.

	TAF 800	TAF 1250
Max output at 100% duty cycle, A	800	1250
Setting range, A/V	300/28-800/44	400/28-1250/44
Open circuit voltage, V	71	72
Efficiency at max current	0.86	0.86
Power factor at max current	0.75	0.76
Voltage, 1 ph 50 Hz, V	400/415/500	400/415/500
Voltage, 1 ph 60 Hz, V	400/440/550	400/440/550
Enclose class, protection	IP 23	IP 23
External dimensions, LxWxH, mm	774x598x1228	74x598x1228
Weight kg	495	608

A2/A6 Process Controller PEH

- Control boxes usable for SAW and GMAW together with A2/A6 automatic welding machines.
- Adaptable to LAF/TAF series of power sources, technical specifications as under.

Enclosure class, protection	IP 23
External dimensions, LxWxH, mm	355x210x164
Mains supply, V/Hz	42 (AC)/50-60
Weight, kg	5.5
Max power consumption, VA	900