

Welding Products Catalog

Industry leader, ushering in the future







ENTERPRISE PROFILE

企业简介

赛普电气集团 (简称赛普) 是一家专业从事电气产品及新能源的研发、制造及营销的
专业化电气有限公司。

赛普集团已引进国外资深管理与经验丰富的专业人事，以严谨的管理，有创意的研发
团队，先进的营销理念，在传统产品的基础上创造和发展了新的更适用的且具有良好
性价比的产品。Saip产品已获得 CE、ROHS、IP68等国内国际认证。产品已得到机关
行业的认证认可，并远销东南亚、中东、东欧及美洲等地域。

赛普现在有全球 28 家代理、三个直销公司。赛普已与多家国际化公司建立了良好的
长期合作伙伴关系。赛普一如既往地坚持“合作发展，共同提高”的服务宗旨，以真
诚的合作态度来最大程度地满足客户的需求。

赛普电气——您成功的合作伙伴！

Saip Electric Group Co.,Ltd(called "Saip" for short)is an enterprise specialized in design,
production and sales of electric equipments. Head office located in the largest
manufacturing base of electric equipment of Wenzhou China, which is called "the Electric
Equipment Capital of China",next to Shanghai and Ningbo Ports.

Saip has five specialized branches, over 300 specialized cooperative partners.Saip,an
ISO9001 certificated enterprise,owns modern production lines and high quality controlling
equipment with scientific administration, professional engineers, highly trained teams
technicians and skilled workers.

Now Saip has five design and production bases in Hong Kong, Taiwan, Singapore, Turkey
and Shanghai (China Mainland), 28 sales organizations in the world and more than 50
holding member enterprises.Saip products cover wind energy, solar energy, low-voltage
apparatus, welding equipment, instrument and meter, photoelectron, electrical products
for construction, automobile apparatus and industrial automation. The products are sold to
more than 100 countries and regions. All exported products have passed through the
certification of CE and partial products have passed through several kinds of international
certification like ROHS EMC LVD IP68 and so on.

Saip as always inherits "high quality and sincere service".

Saip—your successful cooperative partner!

赛普的意义 ENTERPRISE MISSION

一家环球的高质量的电气组织
为了达到最高的质量水准，
所有产品均按照 IEC 国际电工委员会的标准生产。

A global Quality Electric Organization
In order to obtain the highest quality all of
products according to international IEC normatives.

愿景 ENTERPRISE VISSION

成为一家持续发展超出103年的企业
成为一家超出20000名销售员工和2000名设计工程师的企业
成为全球电气品牌管理专家

To be an enterprise lasting 103 years and beyond.
To be an enterprise with a network of 20000 sales personnel
and 2000 design engineers.
To be the choice brand manager of major worldwide electrical
brands.

使命 ENTERPRISE MISSION

铸造充满幸福的产品
To creat products that deliver happiness to everyone.

ENTERPRISE CONCEPT

企业理念

商业原则 BUSINESS PRINCIPLE

做简单的生意 简单地做生意
To conduct business in a simple straightforward manner.

人生观 HUMAN PRINCIPLE

客户至上 员工第一 股东第二
Customers are our topmost priority, followed by our employees and stakeholders.

产品观 PRODUCT PRINCIPLE

文化电气 / 幸福电气 / 品位电气 / 科技电气 / 信息电气 / 便捷电气
To manufacture quality, innovative products that bring convenience to its
users.

工作观 WORKING PRINCIPLE

快乐工作 幸福生活
To work and live happily

证书 CERTIFICATE



价值观

客户至上——客户是衣食父母
Customers are the most important driver of our business

团队合作——共享共担，平凡人做非凡事
Striving as a team and achieving goals together

拥抱变化——迎接变化，勇于创新
Embracing change and constantly pursuing innovation

诚信——诚实正直，言行坦荡
Conducting business with integrity and honesty

激情——乐观向上，永不放弃
Always optimistic and persistent

敬业——专业执着，精益求精
Performing our jobs with professionalism.

Inverter Pulse MIG/MAG Welding Machine

- Suitable for different kinds materials welding such as steel, stainless steel, aluminum, zinc coated steel, copper and so on. Multi functions in one machine-MIG/MAG, P-MIG/MAG, DOUBLE P-MIG, CO₂, TIG, P-TIG, MMA, carbon arc gouging.
- DSP control and soft-switch improve the dynamic characteristics and welding performance.
- One knob synergic operation, simple and easy for everyone to use.
- Preprogrammed expert database, make perfect welding realized.
- DSP control wire feed, feeding wire more accurately and smoothly.



INDEX

	<p>INVERTER DC TIG/MMA WELDING MACHINE</p> <p>05-08</p>		<p>INVERTER AC/DC SQUARE WAVE TIG WELDING MACHINE</p> <p>12-14</p>		<p>INVERTER DC AIR PLASMA CUTTER</p> <p>18-20</p>		<p>INVERTER PULSE MIG/ MAG WELDING MACHINE</p> <p>23-24</p>
<p>INVERTER DC MMA WELDING MACHINE</p> <p>01-04</p>		<p>INVERTER CO2 GAS SHIELDED WELDING MACHINE</p> <p>09-11</p>		<p>INVERTER DC PULSE TIG WELDING MACHINE</p> <p>15-17</p>		<p>INVERTER DC AUTO SUBMERGED ARC WELDING MACHINE</p> <p>21-22</p>	

INVERTER DC MMA WELDING MACHINE

- Latest plastic panel design, exclusive and attractive appearance as well as the better protection.
- Transparent shielding cover protect the machine from dust, moisture, corrosion, make the machine work more reliably in bad working environment.
- Protective circuit design give safe operation.
- High duty cycle, small size, light weight.





IGBT TYPE

- totally 5.5KG, compact and portable, easy and simple to operate
- start arc easily, stable welding arc, deep weld pool and beautiful welding shape
- hot striking arc current is adjustable which can greatly improve the arc-starting function
- suitable for welding with different kinds of acid or basic electrode
- plastic box with complete accessories is optional: electrode holder, earth clamp, cable joint, welding mask and brush



Portable MMA Welding Machine

Model	ARC-140G*	ARC-160G*	ARC-200G*	ARC-250G*	ARC-315G*	ARC-400G*	ARC-500G
Type	IGBT Chip						
Rated input voltage (V)	single phase AC220 \pm 15%			three phase AC380 \pm 15%			
Rated frequency (Hz)	50/60			50/60			
Rated Input power (KVA)	4.5	5.3	7	8	13	18	23
Rated input current (A)	20	24	32	12	20	27	34.6
Rated output	140A/25.6V	160A/26.4V	200A/28V	220A/28.8V	315A/32.6V	400A/36V	470A/38.8V
Output current (A)	20-140	20-160	20-200	20-220	20-315	20-400	20-470
No-load voltage (V)	56 \pm 5	56 \pm 5	62 \pm 5	60 \pm 5	60 \pm 5	65 \pm 5	65 \pm 5
Rated duty cycle (%)	60	60	60	60	60	60	60
Efficiency (%)	85	85	85	85	85	85	85
Power factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Protection grade	IP21	IP21	IP21	IP21	IP21	IP21	IP21
Insulation grade	F	F	F	F	F	F	F
Net weight (KG)	5	5	5.9	11.6	19.7	26.3	29.3
Gross weight (KG)	5.9	5.9	6.8	12.9	22.3	29.3	32.3
Housing of machine	iron	iron	iron	iron	iron	iron	iron
Dimension of machine (mm)	330 \times 120 \times 200	330 \times 120 \times 200	330 \times 120 \times 200	350 \times 130 \times 260	495 \times 200 \times 392	495 \times 200 \times 392	540 \times 280 \times 470
Packing	carton	carton	carton	carton	carton	carton	carton
Dimension of packing 1V1 (mm)	428 \times 206 \times 220	428 \times 206 \times 220	428 \times 206 \times 220	472 \times 237 \times 336	581 \times 297 \times 427	581 \times 297 \times 427	640 \times 410 \times 510
Dimension of packing 4V1 (mm)	442 \times 431 \times 466	442 \times 431 \times 466	442 \times 431 \times 466	—	—	—	—
Including accessories: earth clamp \times 1pcs, cable joint \times 2pcs, Inner hexagon spanner \times 1pcs							
Plastic box with complete accessories is optional: earth clamp \times 1pcs, cable joint \times 2pcs, electrode holder \times 1pcs, welding mask \times 1pcs, brush \times 1pcs							

* two options: iron panel and plastic panel

MOSFET TYPE

- MOSFET Inverter circuit, high frequency arc starting
- compact, portable, highly effective, low power consumption
- automatic compensation for voltage fluctuation, can work against input voltage fluctuation ($V \pm 15\%$)
- small splashing, great penetration, easy and simple to operate and aesthetic appearance of weld seam
- over-voltage protection, undervoltage protection, over current protection, over load protection



Inverter DC MMA Welding Machine

Model	ARC-160	ARC-200	ARC-250	ARC-315	ARC-400	ARC-500
Type	MOSFET					
Rated input voltage (V)	single phase AC220 ±15%		three phase AC380 ±15%			
Rated frequency (Hz)	50/60					
Rated input power (KVA)	5.3	7	7.9	13	17	24
Rated Input current (A)	24	31.8	12	19.5	25.4	35.7
Rated output	160A/26.4V	200A/28V	220A/28.8V	315A/32.6V	380A/35.2V	480A/39.2V
Output current (A)	20-160	20-200	20-220	20-315	20-380	20-480
No-load voltage (V)	56±5	56±5	60±5	60±5	60±5	60±5
Rated duty cycle (%)	60	60	60	60	60	60
Efficiency (%)	85	85	85	85	85	85
Power factor	0.85	0.85	0.85	0.85	0.85	0.85
Protection grade	IP21	IP21	IP21	IP21	IP21	IP21
Insulation grade	F	F	F	F	F	F
Net weight (KG)	7.6	8	16.4	23.9	29.9	31.5
Gross weight (KG)	8.4	9.5	18.2	27.3	33.2	35.1
Housing of machine	Iron	Iron	Iron	Iron	Iron	Iron
Dimension of machine (mm)	400×155×300	412×155×300	495×203×359	571×324×431	571×324×431	571×324×431
Packing	carton	carton	carton	carton	carton	carton
Dimension of packing (mm)	477×271×320	507×271×320	550×260×450	620×400×500	620×400×500	620×400×500
Including accessories: earth clamp×1pcs, cable joint×2pcs, Inner hexagon spanner×1pcs						



IGBT MODULE TYPE

- adopts IGBT module technology
- soft-switching technology brings higher efficiency and more stable performance
- automatic compensation for voltage fluctuation, can work against input voltage fluctuation ($V \pm 15\%$)
- small spashing, great penetration, easy and simple to operate and aesthetic appearance of weld seam
- over-voltage protection, undervoltage protection, over current protection, over load protection
- suitable for welding with different kinds of acid or basic electrode

※ ARC-400X support down weld with cellulose type electrode

Inverter DC MMA Welding Machine

Model	ARC-400*	ARC-500*	ARC-630	ARC-1000	ARC-1250
Type	IGBT Module				
Rated input voltage (V)	three phase AC380 $\pm 15\%$				
Rated frequency (Hz)	50/60				
Rated input power (KVA)	18.4	25	35	55	89
Rated Input current (A)	28	38	52	84	104
Output current (A)	20-400	20-500	50-630	60-1000	60-1250
Rated working voltage (V)	36	40	44	44	44
Drive adjustment (A)	0-100	0-100	0-100	0-100	0-100
No-load voltage (V)	79	79	79	95	95
Rated duty cycle (%)	60	60	60	60	60
Efficiency (%)	85	85	85	85	85
Power factor	0.93	0.93	0.93	0.93	0.93
Protection grade	IP21	IP21	IP21	IP21	IP21
Insulation grade	F	F	F	F	F
Net weight (KG)	37.6	45	55.2	74	96
Gross weight (KG)	42.5	50	67.6	85	113
Housing of machine	iron	iron	iron	iron	iron
Dimension of machine (mm)	642×323×573	642×323×573	700×360×638	777×380×830	830×390×820
Packing	carton	carton	wooden box	wooden box	wooden box
Dimension of packing (mm)	700×390×660	700×390×660	760×450×705	830×480×910	915×480×930

Including accessories: earth clamp×1pcs, cable joint×2pcs, inner hexagon spanner×1pcs

* two options: iron panel and plastic panel

INVERTER DC TIG/MMA WELDING MACHINE

- Latest plastic panel design, exclusive and attractive appearance as well as the better protection.
- Transparent shielding cover protect the machine from dust, moisture, corrosion, make the machine work more reliably in bad working environment.
- Protective circuit design give safe operation.
- High duty cycle, small size, light weight.





IGBT TYPE

- support TIG & MMA two kinds of welding
- compact and portable, easy and simple to operate
- start arc easily, stable welding arc, deep weld pool and beautiful welding shape
- suitable for welding with different kinds of acid or basic electrode
- plastic box with complete accessories is optional: electrode holder, earth clamp, cable joint, grounding cable, welding mask, brush and QQ150A TIG torch



Portable TIG/MMA Welding Machine

Model	TIG-180G*	TIG-200G*	TIG-250G*
Type	IGBT Chip		
Rated input voltage (V)	single phase AC220 $\pm 15\%$		three phase AC380 $\pm 15\%$
Rated frequency (Hz)	50/60		50/60
Rated input power (KVA)	5	5.7	8
Rated Input current (A)	23	26	12
Rated output	155A/26.2V	170A/26.8V	220A/28.8V
Output current (A)	TIG: 20-175 MMA: 20-155	TIG: 20-190 MMA: 20-170	TIG: 20-220 MMA: 20-220
No-load voltage (V)	56 ± 5	62 ± 5	62 ± 5
Rated duty cycle (%)	60	60	60
Efficiency (%)	80	80	80
Power factor	0.7	0.7	0.7
Protection grade	IP21	IP21	IP21
Insulation grade	F	F	F
Net weight (KG)	5.5	6	20
Gross weight (KG)	6.5	7	22
Housing of machine	Iron	Iron	Iron
Dimension of machine (mm)	335 \times 120 \times 200	335 \times 120 \times 200	480 \times 200 \times 375
Dimension of packing 1V1 (mm)	428 \times 228 \times 226	428 \times 228 \times 226	472 \times 237 \times 336
Dimension of packing 4V1 (mm)	475 \times 445 \times 485	475 \times 445 \times 485	—
Including accessories: earth clamp \times 1pcs, cable joint \times 2pcs, Inner hexagon spanner \times 1pcs, grounding cable \times 3meters, TIG torch \times 1set (QQ150A for TIG-180G/200G, WP-26 for TIG-250G)			
Plastic box with complete accessories is optional			

* two options: iron panel and plastic panel

MOSFET TYPE

- support TIG & MMA two kinds of welding
- MOSFET inverter circuit, high frequency arc starting
- compact, portable, highly effective, low power consumption
- automatic compensation for voltage fluctuation, can work against input voltage fluctuation ($V \pm 15\%$)
- small splashing, great penetration, easy and simple to operate and aesthetic appearance of weld seam
- over-voltage protection, undervoltage protection, over current protection, over load protection



Inverter DC TIG/MMA Welding Machine

Model	TIG-160	TIG-200	TIG-250	TIG-315	TIG-400	TIG-500
Type	MOSFET					
Rated input voltage (V)	single phase AC220 $\pm 15\%$		three phase AC380 $\pm 15\%$			
Rated frequency (Hz)	50/60		50/60			
Rated input power (KVA)	5.3	7	7.9	13	17	24
Rated input current (A)	24	31.8	12	19.5	25.4	35.7
Rated output	TIG/MMA: 160A/26.4V	TIG/MMA: 200A/28V	TIG/MMA: 220A/28.8V	TIG/MMA: 315A/32.6V	TIG/MMA: 380A/35.2V	TIG/MMA: 480A/39.2V
Output current (A)	20-160	20-200	20-220	20-315	20-380	20-480
No-load voltage (V)	56 ± 5	56 ± 5	60 ± 5	60 ± 5	60 ± 5	60 ± 5
Rated duty cycle (%)	60	60	60	60	60	60
Efficiency (%)	85	85	85	85	85	85
Power factor	0.85	0.85	0.85	0.85	0.85	0.85
Protection grade	IP21	IP21	IP21	IP21	IP21	IP21
Insulation grade	F	F	F	F	F	F
Net weight (KG)	8.5	9.4	17.5	25.3	31.9	32.7
Gross weight (KG)	11.5	13.2	22	30.9	38.5	39.7
Housing of machine	Iron	Iron	Iron	Iron	Iron	Iron
Dimension of machine (mm)	400 \times 155 \times 300	412 \times 155 \times 300	500 \times 210 \times 370	580 \times 330 \times 440	580 \times 330 \times 440	580 \times 330 \times 440
Packing	carton	carton	carton	carton	carton	carton
Dimension of packing (mm)	477 \times 271 \times 320	507 \times 271 \times 320	580 \times 270 \times 480	640 \times 400 \times 510	640 \times 400 \times 510	640 \times 400 \times 510
Including accessories: earth clamp \times 1pcs, cable joint \times 2pcs, grounding cable \times 3meters, TIG torch \times 1set (QQ150 for TIG-160, air cooled WP-26 for TIG-200, water cooled WP-18 for TIG-315/400/500)						



IGBT MODULE TYPE

- support TIG & MMA two kinds of welding
- adopts IGBT module technology
- soft-switching technology brings higher efficiency and more stable performance
- automatic compensation for voltage fluctuation, can work against input voltage fluctuation ($V \pm 15\%$)
- over-voltage protection, undervoltage protection, over current protection, over load protection
- suitable for welding with different kinds of acid or basic electrode, MMA support down weld with cellulose type electrode

Inverter DC TIG/MMA Welding Machine

Model	TIG-400*	TIG-500*	TIG-630
Type	IGBT Module		
Rated input voltage (V)	three phase AC380 $\pm 15\%$		
Rated frequency (Hz)	50/60		
Rated Input power (KVA)	18.4	25	35
Rated input current (A)	28	38	52
Output current (A)	20-400	20-500	50-630
Rated working voltage (V)	36	40	44
Drive adjustment (A)	0-100	0-100	0-100
No-load voltage (V)	79	79	79
Diameter of tungsten needle (mm)	1.6-4.0	1.6-4.0	1.6-4.0
Rated duty cycle (%)	60	60	60
Efficiency (%)	85	85	85
Power factor	0.93	0.93	0.93
Protection grade	IP21	IP21	IP21
Insulation grade	F	F	F
Net weight (KG)	41.4	47.6	51
Gross weight (KG)	49.6	55.8	60
Housing of machine	iron	iron	iron
Dimension of machine (mm)	642×323×573	642×323×573	697×350×635
Packing	carton	carton	wooden box
Dimension of packing (mm)	700×390×660	700×390×660	760×450×705
Including accessories: earth clamp×1pcs, cable joint×2pcs, grounding cable×3meters, air cooled QQ300 TIG torch×1set (water cooled QS300 is optional)			

* two options: iron panel and plastic panel