

Megmeet Electrical Co., Ltd
Powering The Future





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About Megmeet

Megmeet is a leading solutions provider in electrical control and energy saving power conversion. Megmeet's core business includes smart home appliances, industrial automation & control devices, and customized power products. Our products are extensively used by Original Equipment Manufacturers of flat panel displays, medical equipment, telecom products, IT equipment, transportation products, high efficiency lighting, and electric vehicles; Megmeet is awarded as "National High-Tech Enterprises" .

Since founded in 2013, Megmeet has experienced rapid growth. Thanks to our talent employee and technology advantage, Megmeet has launched a word class R&D, test and manufacturing platform, which is ISO9001, ISO14001, ISO13485, and ISO16949 registered. With this setup, Megmeet has won more than 600 clients from more than 40 countries.









Global Presences





Continuing Rapid Growth

Megmeet has the most comprehensive technology platform, which brings together technology & engineering to create prefect products and best solutions for our global customers.









Metal Welding

Industrial Automation

Engineering Machinery

Railway









Telecommunication

IT

New Energy

Light









Flat panel display

Smart appliance

Medical Equipment

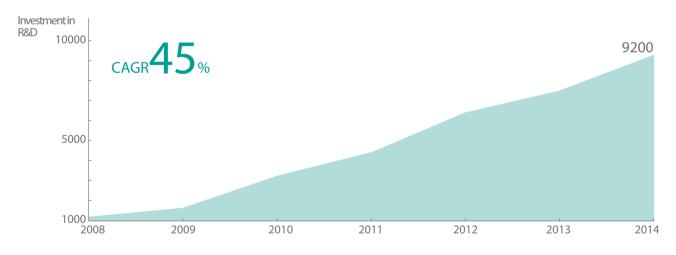
Electric Vehicle

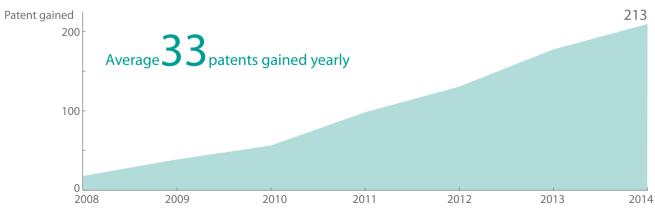
About Our Patent and Investment in R&D

Megmeet strives to not only meet customers' requirements, but also exceed customers' expectations, Megmeet also continuously increase investment in R&D, and promote innovation.



Up to 16 million USD invested in R&D per year.





Honors













National High-Tech enterprise

Enterprise with Patent Advantage

Top 100 tax payer in Nanshan district, Shenzhen

Key R&D Center in Shenzhen

Practice center for creative talents in Nanshan district, Shenzhen

Joint laboratory Megmeet & Texas Instruments



Press Releases of 2014

Dr.Tong, CEO of MEGMEET, attended the Provincial Business Forum and CEO dialogue, and reported enterprise situation to Prime Minister Li Keqiang.

Le Keqiang, member of the Standing Committee of the Political Bureau of the Communist Party of China Central Committee and Premier of the State Council, attended the Business Forum of designated provinces and CEO dialogue in Changsha, Hunan onJuly 3rd, 2014, and delivered important speech. Le Keqiang and Zhou Xiaochuang hosted this Forum. Xu Shousheng-the Secretary of Hunan Provincial Party Committee, Du Jiahao-the governor of Hunan province, Su Shulin-the



governor of Fujian province, Guo Shuqing-the governor of Shandong province and Xie Fuzhan-the governor of Henan province, reported local economic situation to the hosts.

On behalf of business representatives, Dr.Tong, the CEO of MEGMEET; Liang Wengen, the CEO of SANY; Jiang Tianwu, the CEO of Mendale, attended this Forum and reported business operations to all leaders.

Secretary Xu visited Megmeet's Zhuzhou factory





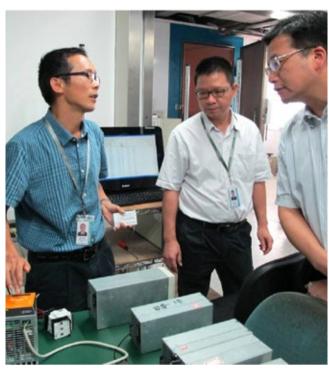
Xu Shousheng, Secretary of Hunan Provincial Committee and Chairman of Provincial Peoples Congress, visited MegmeetZhuzhou factory on August 27th, 2014.

Since the founding of Megmeet Zhuzhou factory, we have developed step by step. Currently, we have completed the phrase I construction of global manufacturing center. Based on this construction, Megmeet producing tends to moderate size and specialization. From the perspective of enterprise operation, Dr.Tong discussed with the governors for Megmeetdevelopment and policy recommendations in Zhuzhou. Dr.Tong has confidence in Zhuzhou factory's future. Han Yongwen, member of the Standing Committee and Secretary-General of the CPC Hunan Provincial Committed; Tan Zhongchi, team leader of Partys mass line of educational practice in Zhuzhou city; Mao Tengfei, mayor of Zhuzhou City, and Xie Gao, secretary of the working committee in Zhu Zhou high-tech zone, also visited MegmeetZhuzhou factory.

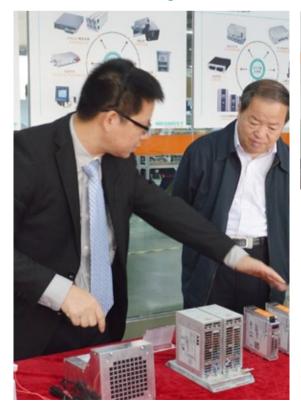
You Jiangwei visited Megmeet Shenzhen

You Jiangwei, member of Standing Committee and Office Director of CPC Committee of Nanshan District, Shenzhen City, visited Megmeet on September 24th, 2014. As a nominated enterprise by Nanshan District Committee, Dr.Tong reported research of new products and intellectual property development in Megmeet in recent years .





Zhou Bohua visited Megmeet Shenzhen





Zhou Bohua, member of Standing Committee of the CPPCC National Committee, director of Economic Commission and exdirector of the State Adminstration for Industry and Commerce, visited Megmeet with other CPPCC memberships on October 17th, 2014. Zhou Bohua was highly complimentary about MEGMEETs R & D innovation in power and industrial automation field, and he also encouraged that Megmeetshould be insist on science and technology advancement and independent innovation for positive contribution to Propel National Industry. The Vice-director of economic committee: Yan Bingzu and Hou Jianmin; the memberships: Song Lan, Xie Duyang, Wang Heling, Wang Xiaolan, Wu Yueshi, Rong Jianxun, Xu Kemin and Shen Lixia, and the Vice-Chairman of Hunan Provincial CPPCC:Wu Jihai, accompanied with Zhou Baohua to inspect Megmeetat the same day.

Successful Cases and Applications

- Since introduced into market, Megmeet full digital heavy duty intelligent welder has been adopted by many Fortune500 companies in a short period of time, and it has become the most popular robot welders in the welding automation industry
- Winner of "Excellent product in China industry robot"

























































Full Digital Heavy Duty Intelligent Welder

For 9 years, Megmeet has been focusing on research and development of the fundamentals of arc welding and its applications. Continuously innovating based on customer needs, Megmeet is committed to enhancing service quality with high technology and reliability products.

Our high performance welders make it possible for our customers to achieve the best result in metal welding process, so that they can focus on their core business.

Advanced digital welder

Close to industry application

Development of welding expert system

Numerical modeling of welding process

Power Software technology

Computer software technology

Welding process

Arc physics

Metal Materials Materials Science

Science

Motor drive and motion control

In China, Megmeet is the leader who is good at above field of technology and applications.

Full digital technology, brings excellent arc physics and welding process control.



Let us enjoy the fun of welding.





Megmeet launched Full digital IGBT 64KHz heavy duty welders for the global manufacturing industry! They are all known for the welding performance, reliability and high efficiency, which bring higher quality, more efficient welding experience and value to our global customers.





Why do we pay attention to reliability so much?



Welder failures happen frequently in harsh environment.



Failures cause 24 hours or longer time to resume work.



Shutdown cost of welding position is up to 360USD.



Due to tough competition in global manufacturing industry, affordable downtime becomes shorter and shorter.

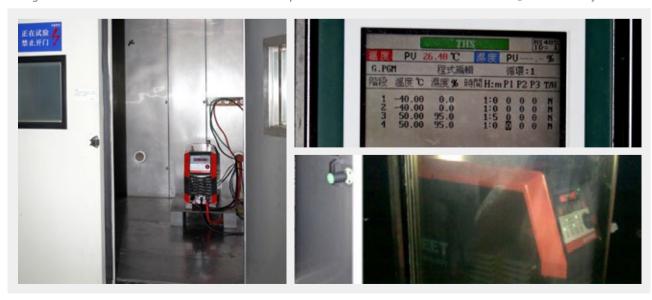
Why Reliability?

1. Lightning and class D surge protection(withstand 6000V/3000A) design to ensure high reliability and long lifetime in extreme harsh environment, such conditions of lighting accompanied by peals of thunder, severe oscillation of grid voltage, and generator supplying power.



Megmeet's welders are adapted to all kinds of harsh environment, such us unstable power grid, generator supplying power and super long power cables ,etc, and they can work stably within input range of 380V+-25%, 30-80Hz.

2.Megmeet's welder endured 72hours environment temperature circulation test from -40 $^{\circ}$ C to +50 $^{\circ}$ C @ 95% humidity.



3. Megmeet's welders can work reliably under the high humid and rain environment.





5. Thanks to excellent EMC&EMI design, Megmeet's welders can work with other electrical equipment harmony.



4. The overheat warning of output terminals.

The damage of output terminals is common. This may reduce the work efficiency. Megmeet's welder monitors the temperature of output terminals. And it reminds the users tighten the screws to avoid damage of output terminals in abnormal condition.





More detail intelligent codes, please check our product manuals.

6. Megmeet' s welders have passed salt spray test, metal dust test and conductivity test.





7. Megmeet's welders have passed HALT (Highly Accelerated Life Test).

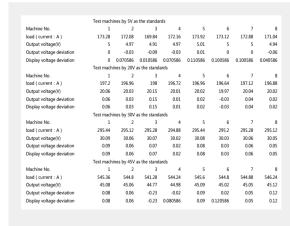
Adding up all the factors such as output load, environment temperature& humidity, salt spray, metal dust, ESD, EFD, lightning, surge, vibration etc, and put on the welder at the same time. Increase the test level gradually until the weld machine breakdown to check the weak point of the system. Then optimize the design and repeat the test to find next weak point.



Consistency

Any Time, Anywhere, always the same performance.



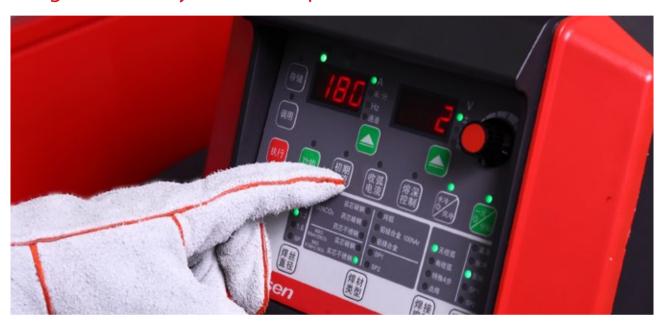


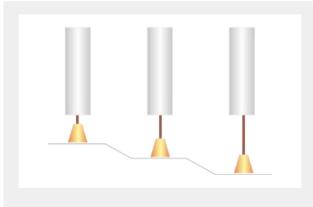
- Thanks to the high switching frequency design of the power inverter and advanced full digital control, the discreteness of hardware components can be corrected and the variation between welders can be eliminated.
- The low temperature drift and high-precision components, ensure the output waveform of Megmeet's welders has the same performance different ambient condition
- In addition, thanks to excellent design of the feedback and feed forward control, the welders have the same under different input and output condition.



Stability

Long Lifetime Beyond Your Expectation.





- The genius machine can reduce welding spatter and keep the stability
- Thanks to our excellent arc length compensation and control technology, the arc and fusion depth will keep almost the same under different length of wire stick-out or different welding position etc
- The to remote voltage compensation technology keep the welding voltage the same at different length of cable

Intelligence





- All welding parameters can be adjusted, to satisfy different weld conditions from control panel
- Based on enhanced CAN-BUS interface and various communication protocols, Megmeet's welders can be easily connected to industry robot, automation equipment, and remote monitors freely
- Based on Megmeet's unique welding expert database, the synergic welding mode was induced, and the arc characteristic was designed to suitable for different welding conditions, so the operability and tolerance of automatic welding system is promoted highly
- Based on high accuracy digital sampling and control strategy, Megmeet can achieve high quality welding from 30A to 500A by using the same welder
- The welder can respond and follow the robot's algorithm to trace the arc perfectly through the robot model in the analog and digital interface
- High speed digital communication system (up to500KHz) can avoid aberration and delay which came from relay equipment and enhance the reaction time of system
- Flexible communicating protocol and deep opened welding parameters can extend the welding limit and make the welding performance more stable, faster and smaller for thermal deformation, etc



Cost Effective

Highest Cost Effective Is possible

- Comparing to traditional welder, Megmeet's welder can save 6-10 Kwh electricity for each roll of welding wire usage. Assuming one welder uses two rolls of welding wire per day, the 1000 USD worth of electricity can be saved each year
- Traditionally, 200/350A welder for thin metals, 500A welder for medium thickness metal. For the welding material, Megmeet's 500A welder uses less electricity than a traditional 200 A welders
- The welding process software upgrade makes it possible to use the same welder for different welding process and special metals. And also the software update feature makes it possible for the customer to test the latest welding technique without purchasing a new welder







Humanization People-Oriented Technology

"High reliability" +" self
diagnosis" + " easy
disassemble" to ensure the
high work efficiency



An "easy to use" machine is designed for the new worker

- Hand shaking is inevitable for most new workers.
- The arcing voltage compensation and control technology adopted by Megmeet welder can help the new operator to achieve steady welding performance.
- Synergic mode: Based on Megmeet' welding expert database, the operator only need to adjust welding current or wire speed, and other welding parameters are followed, which makes welding easier.



Locking of Welding Parameters

Hand shaking is inevitable for most new workers.

The arcing voltage compensation and control technology adopted by Megmeet welder can help the new operator to achieve steady welding performance



Rapid Recovery of Production

The embedded structure and isolation protection design make it easy to disassemble the machine and recover production rapidly.

The welder can send out error codes on panel. Such as:

- E01: Welding torch switch has error
- E02: +—output terminals are overheat, please tighten the screws
- E03: Three phase input or grid abnormal
- E04: Fan is broken or machine overload
- E06: +—output terminal short circuited, checking the external cables
- -







Full Digital Heavy Duty Intelligent Welders' models



Gas metal arc welders	Carbon steel	Stainless steel	Aluminum alloy	High- strength steel	Less spatters	Robot communication interface AR/ DR(CAN)	Robot communication interface Device Net	Carrier communi cation	Integrated Water cooling system	customized software function of welding process
Ehave CM 500H/500/350/250	•					0				\circ
Artsen CM 500/400/350	•			0		0	0		0	0
Artsen CM 500C	•							•		0
Artsen PM 500/400F	•			0	•	0	0		0	0
Artsen PM 500/400N	•	•		0	•	0	0		0	0
Artsen PM 500/400A	•	•	•	0	•	0	0		0	0

● Standard ○ Optional

Ehave CM500H/500/350/250

Full Digital Heave Duty *CO₂/MAG/MMA Intelligent Welder

Applicable to car industry, shipbuilding, steel structure, machinofacture, metallurgy, petroleum industry, etc.



Product features:

- The stabilized arc and low spatter technology make our welders suitable for all current range and different welding processes
- Comparing to traditional welder, because the arc is more focus and better penetration, this machine needs 20% less heat to have the same fusion depth.
- The unique droplet control technology brings many benefits, such as excellent gap-bridging ability, etc.
- The micro-control technology of "clear ball" helps to increase success rate of starting arc highly
- The operator can set up various welding parameter and expand function on welder panel without purchasing any other configurations
- It has 10 default settings and can be customized up to 99
- With digital communication interface based on CAN, the welding process and customized functions can be updated
- Communicating to robot is optional













Technical specifications

ITEM-MODEL	Ehave CM500H	Ehave CM500	Ehave CM350	Ehave CM250			
Control mode	Full Digital						
Input voltage	3 phase 380Vac±25%(285 ∼ 475V)						
Input frequency	$30\sim 80\mathrm{Hz}$						
Input capacity	24KVA	22.3KVA	13.5KVA	8kVA			
Rated open-circuit voltage	75V	73.3V	63.7V	63.7V			
Rated output current	30 ∼ 500A	30 ∼ 500A	30 ∼ 400A	30 ∼ 300A			
Rated output voltage	12 ~ 45V	12 ~ 45V	12 ∼ 38V	12 ~ 30V			
Rated duty cycle	500A@100% @40°C	500A@100% @25°C	350A@100% @40°C	250A@100% @40°C			
Welding method	CO ₂ /MAG/MMA, solid wire, flux-cored wire, electrode						
Wire diameter	1.0/1.2	/1.2mm					
Welding sequence	2T, 4T, special 4T, spot welding						
Welding parameter channel	10 sets						
Arc dynamic	-9 ∼ +9						
Robot communication interface	Yes						
Reserved communication interface	Yes						
Cooling mode	Intelligent cooling						
wire feed speed	1.4~24m/min						
Protection class	IP23S						
Storage temperature	-39°C∼ +50°C						
Dimensions	300×480×620mm						
Weight	55kg	52kg	48kg	48kg			

ArtsenCM500C

Full Digital Heave Duty *CO₂/MAG/MMA Carrier Intelligent Welder

Artsen CM500C has the unique technology of bidirectional carrier communication between weld panel and wire feeder, which makes it very suitable for long distance welding condition, such as shipbuilding, steel structure, machinofacture, etc, especially for applications in heavy industry.



Product features:

- Statistically, 70% of the failures are caused by the weak control cable. Megmeet's unique "bi-directional carrier communication" technology makes it possible to eliminate the traditional control cable. This highly increases the reliability of the welding system, especially for long distance welding condition. The distance between welding machine and the work area can be extended to 100 meters
- ArtsenCM500C have duty cycle of 500A@100%, wire feeding speed of 24m/min, which ensures high deposition rate work
- Thanks to excellent protection design of the wire feeder and PCBA, ArtsenCM500C can be used in the Vibration, collision, moisture, salt fog environment etc

100m

- The wire A/V can be settled and displayed on the wire feeder, the operators don't need to collocate external debugger and adjustment of the welding machines
- The high speed bi-directional carrier communication function can synchronize the wire feeder and welding machine high speed synchronization, The excellent anti interference signal can be achieved
- ArtsenCM500C and wire feeder can display error codes at the same time, And they can recover automatically after exclusion
- The wire feeder has over current protection function.
- The solenoid valve has short circuit and open circuit protection
- The weight and size of welding cables is much smaller, so ArtsenCM500C can be moved much more convenient

	Communication mode	Immunity	The A/V display on wire feeder	Welding performance	PCB reliability
Artsen CM 500C	High Speed Bi-directional Carrier Communicatio)	Excellent	Yes	Excellent	Excellent
The traditional Carrier communication	One-way Carrier Communicatio	Pass	No	Pass	Pass



Full Digital Heavy Duty Intelligent Welder

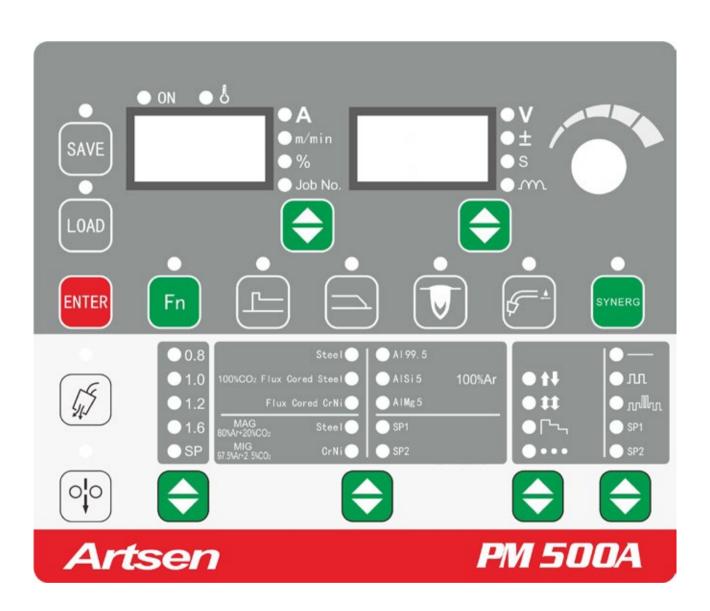
Technical specifications

ITEM-MODEL	Artsen CM500C
Control mode	Full Digital
Carrier communication mode	High Speed Bi-directional Carrier Communication
Input voltage	3 phase 380Vac \pm 25%(285 \sim 475V)
Input frequency	30 ∼ 80 Hz
Input capacity	24KVA(22.3KW)
Rated open-circuit voltage	75V
Rated output current	50 ∼ 500A
Rated output voltage	12 ~ 50V
Rated duty cycle	500A@ 100%
Welding method	CO ₂ /MAG/MM, solid wire, flux-cored wire, electrode
Wire diameter	φ 1.0/1.2/1.4/1.6mm
Welding sequence	2T, 4T, special 4T
Arc dynamic	-9 ∼ +9
Reserved communication interface	Yes
Cooling mode	Intelligent cooling
Wire feeder digital display	Yes
wire feed speed	$1.4\sim 24$ m/min
Protection class	IP23S
Storage temperature	-39°C∼ +50°C
Dimensions	300 × 480 × 620mm
Weight	52KG



Artsen PM500/400(F/N/A)

Full Digital Heave Duty Pulse MIG/MAG/CO₂ Intelligent Welder



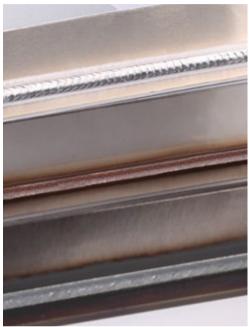




ArtsenPM500/400F/N/A

Full Digital Heave Duty Pulse MIG/MAG/CO₂ Intelligent Welder





Product features:

- Full digital control technology helps to control droplet's energy in real time, and "one pulse one droplet" transfer can be achieved. As a result, hardly any spatter occurs
- Applicable to carbon steel, stainless steel, aluminum alloy, etc
- Different welding process programs and data are designed for different aluminum alloys, The best weld can be achieved
- Synergic mode makes welding easier
- Rich expert welding database in collaboration with the welding parameters make it possible for the operator to only adjust the wire feeder rate when they need to change the working condition
- Using the optical as the feedback of wire feeder control to the load and input vibration, The wire feeding is much more stable
- Up to 30 Job Channels, the parameters can be switched quickly
- Open pulse welding parameters, which can help to adjust the proportion of each parameter freely, reduce the heat input and get an excellent welding performance
- Open double pulse welding parameters, which can help to obtain an excellent weld seam according to match of weld seam
- The internal menu can meet customers' all kinds of requirements
- Double pulse/single pulse/DC/OP welding model can be switched on the control panel
- The weld process firmware can be upgraded for different materials, such as Q690
- Optional function of connecting with robot communication and other multi-communication method

Full Digital Heavy Duty Intelligent Welder

Technical specifications

ITEM-MODEL	Artsen PM400F/N/A	Artsen PM500F/N/A			
Control mode	Full Digital				
Wire feeder control mode	Digital control using encoder feedback				
Input voltage	3 phase 380Vac±	25%(285 ~ 475V)			
Input frequency	30 ~	80 Hz			
Input capacity	24KVA(2	22.3KW)			
Rated open-circuit voltage	73.	3V			
Rated output current	400A	500A			
Output voltage	12 ~	45V			
Output current	30 ∼ 400A	30 ∼ 500A			
Rated duty cycle	400A@100%	500A@ 60%			
Wire feed speed	1.4 ~ 24m/min				
Welding method	CO2/MAG/MMA; Double pulse/single pulse/DC/OP customization				
Welding sequence	2T, 4T, special 4T, spot welding				
Arc dynamic	-9 ∼ +9				
Robot communication interface	Yes				
Reserved communication interface	Yes				
Protection class	IP23S				
Storage temperature	-39°C∼ +50°C				
Dimensions	300×480×620mm				
Weight	52KG				
ArtsenF/N/A	/N/A Please check page 22 about differences between F/N/A models				
Circulating water cooler (optional)					
Rated capacity	260W				
Rated voltage	400Vac				
Cooling water capacity	6.5L				
Cooling water flow	3.5L/min				
Cooling water max. lift	30m				



We provide best products and technical solutions to ensure the perfect welding performance

Our resource sharing platforms to ensure our customers enjoy high cost effective welders Our network sales service to ensure our customers obtain fast technical support

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Industria automation:	☑ Digital welder	☐ AC drive	□ PLC	☐ Motor controller	$\hfill \square$ Industrial automation solution		
Customized power:	☐ Telecom power	\square Medical power	□ LED	\square Panel power	☐ Electric power		
	\square All in one PC power	☐ Server power					
Smart home appliances:	☐ PSU for flat panel display						
	\square Inverter&controller for air conditioner refrigerator, washing machine, microwave oven, etc						
	☐ PSU&controller for water heater, smart toilet seat, printer.etc						