

KAIYUAN

SAW Catalogue

Proven Machine Proven Performance



High Reliability Design for Heavy Duty Applications

KID 1200G with IOT capability

This is a heavy duty Inverter controlled CC/CV power source suitable for Submerged Arc Welding (SAW), Electro Slag Welding (ESW) and Strip Cladding. Backed by proven performance, rugged and reliable design and a wide range of protective features make it ideal for customers across all the applications segments. The state of the art control circuit features stable welding current to assure best welding quality.

- Unique arc control technology has changed the traditional power source to the process control.
 - Easier to achieve full penetration of without root clean
 - Easier to control the welding bead height along with ensuring penetration
 - Constant penetration guarantee the welding quality, avoid un-fusion caused by voltage change.
 - In tandem welding, lead wire no need bear bad forming to achieve deep penetration



Salient Features:

- Heavy Duty – 1200A / 70%
- Operating Mode – CC/CV
- Suitability – SAW, ESW
- Digital Display – V/A
- In-built Protections
 - Over Current
 - Over Heat
 - Over / Under Voltage
 - Phase Fault
 - Control Cable Short Circuit
 - High Frequency (HF) interference
 - Operation at high ambient

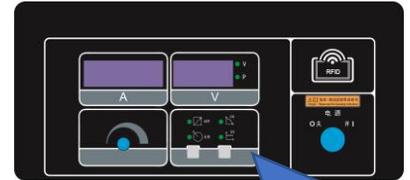
Model	KID -1200G	
Control Method	-	Digital IGBT Control
Rated input	-	AC 415, 3 Phase
Rated input Frequency	Hz	50
Rated Input Power	KVA	68
Rated Output Current	A	1200
Rated Output Voltage	V	44
Rated Duty Cycle	%	70% (1200A, 44V)
		100% (1000A, 44V)
Rated No load voltage	V	72
Output Current range	A	DC 100-1200
Output Voltage range	V	24-44
Protection Class	-	IP23S
Insulation Grade	-	200 deg
Cooling Mode	-	Fan
Dimensions (W X D X H)	mm	427 X 810 X 1000
Weight	kg	132
EMC	-	Category A

High Reliability Design for Heavy Duty Applications

KID 1200G

Function in one go

- **Power Switch:** On / OFF of the power source
- **RF ID: Optional** –Equipment Authority management
- **Characteristic:** CC/CV mode
- **Mode Switch:**
 -  **Remote:** Controller by tractor
 -  **Local:** Controlled by Power Source
- **Current & Voltage display:** Display presetting current & Voltage when not welding and during welding display the actual weld parameters
- **Port for Master power source Connection (Optional):** For multi arc use
- **Port for Slave Power source Connection (Optional)** For Multi arc use
- **Ethernet Port:** Optional
- **WIFI Port:** Optional
- **Antenna Port:** Optional



Remote / Local
CC/CV
Presetting
P menu adjustment

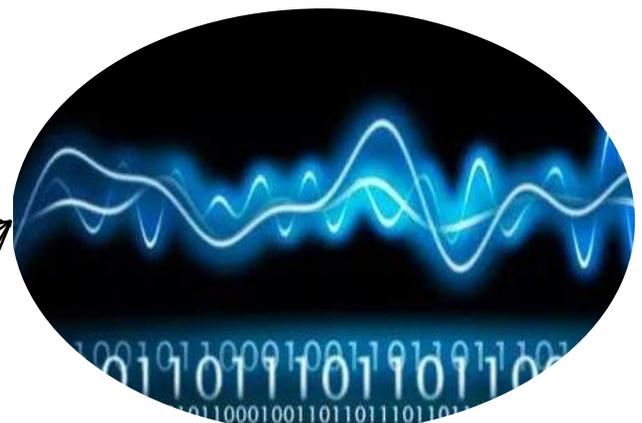
Function expansion accessory unit
Multi-wire system
Constant penetration function
Special wire process

High reliability
Common parts used with
Panasonic

IoT module (optional)
Enable Panasonic iWeld
Cloud system

Cloud management system
(optional)
Manage welding equipment and
production through iWeld Cloud

RFID intelligent card (optional)
Realize combine operator with
machine



Full digital control

New Arc algorithm

Core control data

Heavy duty SAW tractors

MZC-1250F35

This is DIGITAL CONTROL heavy duty tractor mounted SAW Head suitable for operating with Kaiyuan's Power Source (KID 1200G). This is most commonly used for heavy duty welding applications. The tractor comes with the Arc Start(Current & Voltage setting), Weld (Current & Voltage setting) & Crater (current & voltage) setting.



Model	MZC -1250F35
Wire Diameter (mm)	2.4, 3.2, 4.0, 4.8
Wire feed speed (m/h)	20-200
Arc Start Mode	Touch, Scratch mode
Travel Speed (m/h)	9 to 75
Cross slide Adjustment range (mm)	100mm X 100mm
Welding head rotating angle	360 deg
Left & Right adjustment angle	45 deg
Front & Back adjustment angle	45 deg
Flux Capacity(L)	8
Wire reel capacity (kg)	25
Dimension (L X W X H)	950 X 550 X 810
Net weight (kg)	56
EMC Classification	A Classification



- 1) Arc Start/Weld/Crater Current & Voltage setting;
- 2) Switch between Current and wire feed speed;
- 3) Wire selector (2.4/3.2/4.0/4.8mm)



- 1) Travel speed m/h;
- 2) Heat Input KJ/min;
- 3) Time sec;
- 4) RF ID for Pass Authorization;
- 5) Channel Selection for switching channel;
- 6) Save & Program Recall function;

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