AC/DC INVERTER TIG

BETA Series

AC / DC Pulse Tig Welding machine for aluminum, nonferrous metal, thin plate welding with excellent output and durability using full bridge method

CC · 1/3 PHASE · DC · AC DC · 50/60 Hz · TIG

Model	Detailed		BETA 200D	BETA 350D	BETA 350DP	BETA 500DP	BETA 350AP	BETA 500AP
Rated power	TIG	KVA	8	11	11	17.5	11	17.5
	MMA	KVA	7	11	11	14.5	11	14.5
Input voltage		V	1P 220V	1P, 3P 220V/380V/440V±10%				
Frequency		Hz	50/60					
Rated output current	TIG	A	200	350	350	500	350	500
	MMA	A	140	240	240	300	200	300
Rated output voltage		V	18	24	24	30	24	30
Rated output current range	TIG	A	20~200	10~350	10~350	10~500	10~350	10~500
	MMA	A	20~140	10~240	10~240	15~300	10~200	15~300
Rated output voltage range		V	72	75	75	90	70	70
Duty cycle		%	60					
Pulse	LOW	Hz	0.1~25					
	HIGH	Hz	0.5~400			10~500		
	PULSE WIDTH	Hz	15~85					
Weight		kg	11	22.5	25	60	65	79
Dimension (WxDxH)		mm	180x400x220	260x510x465	260x510x465	390x520x620	390x520x620	410x600x740

Package configuration

- Welding machine
- Base metal cable 3m
- Remote 10m
- Torch 10m

Options

- Torch (water cooling, air cooling)
- Regulator

Recommended welding consumables(HYUNDAI)

Stainless ST-308, ST-308L, ST-309, ST-309L, etc.

Power source characteristics

- INVERTER TIG WELDING MACHINE BETA Series
- AC/DC inverter pulse TIG welding machine for aluminum and nonferrous metal plates
- Excellent welding for nonferrous metal plates and aluminum due to low-speed and high speed pulse functions

▸ Thin plates and base metals with different thicknesses can all be welded by selecting a pulse
▸ High-speed pulse (10~50Hz)
▸ Low Speed pulse (10-25Hz)

Excellent output and durability by adopting Full Bridge method (Applied to 200A or over)

▸ Excellent durability and high output due to small voltage and stress imposed to the switching element, unlike the Half Bridge method
▸ Diverse welding materials with a single welding machine
▸ AC/DC TIG, AC/DC MMA, AC/Pulse TIG are all weldable with this welding machine, based on BETA AP
▸ Adopted a diverse arc start method
▸ High-frequency start or start scratch method
▸ Various built-in protective functions improve durability and stability

DC INVERTER

ALPHA Series

Model		ALPHA II 500M	ALPHA III 500M
Rated power	KVA	40	
Input voltage		3P 220V/380V/400V±10%	
Frequency	Hz	50/60	
Rated output current	A	500	
Rated output voltage	V	40	
Rated output current range	A	12~500	7~500
Rated output voltage range	V	3~40	
Max open circuit voltage	V	80	
Duty cycle	%	60	
Weight	kg	234	
Dimension (WxDxH)	mm	480x800x960	

CC · 3 PHASE · DC · 50/60 Hz · TIG

Power source characteristics

Staturable TIG welding machine exclusively for shipbuilding, plants and construction sites

▸ A High-performance Magnet Amplifier makes a stable drooping and controlling the wide current band possible

Excellent arc characteristic

▸ By adopting a powerful high-frequency arc start method, an stable arc can be created even when the length of torch is extended

Diverse functions

▸ A diverse welding method with 3 built-in functions of crater indicator and repetition
▸ Adjustable amount of pre flow and after flow gases

Recommended welding consumables(HYUNDAI)

Stainless ST-308, ST-308L, ST-309, ST-309L, etc.

DC INVERTER

HOTWIRE TIG

Model		MHW-200DT	MHW 200DM
Rated output current	A	25~150	30~200
Rated input power	V	1/3P 220V/380V/440V	
Duty cycle	%	60	
Dimension (WxDxH)	mm	280x500x560	

Power source characteristics

- System for increasing the deposition amount and improving bead quality

High efficiency INVERTER system using IGBT

▸ Stable output with quick response to fluctuation of input voltage and load
▸ By supplying additional wire to the arc while increasing the temperature to 300~1000°C, materials can be melted faster. In addition, stable welding is achievable due to the stable melting rate on the bead surface

CC · 3 PHASE · DC · 50/60 Hz · TIG