

INVERTER WELDING

H Series

CO₂/MAG

Low Power Universal Inverter Welding machine
Simple and Easy operation method for beginner



		350S	500M	600M	600MS
Type		CO ₂ /MAG		CO ₂ /MAG/GOUGING	
Rated power	kVA	19	24.5	37	
Input voltage	V	220V/380V/440V±10%	415V±10%	220V/380V/440V±10%	380V/440V±10%
Frequency	Hz	50/60			
Rated output current	A	350	500	600	
Rated output voltage	V	36	42	50	
Rated output current range	A	60~350	80~500	80~600	
Rated output voltage range	V	12~36	12~42	12~50	
Max open circuit voltage	V	57	76	83	83
Duty cycle	%	60	60	60	100
Weight	kg	55	72	82	90
Dimension (WxDxH)	mm	370x530x660	400x590x750	425x690x790	460x690x870

Package configuration

- Welding machine
- Input cable 5m
- Torch 5m
- Earth cable 3m
- Analog wire feeder
- Single cable 10m
- Gas hose 3m

Options

- Wire feeder (2roll / 4roll)
- Each cable meter
- Digital wire feeder
- Regulator

Recommended welding consumables(HYUNDAI)

- Solid Wire : SM-70, SM-70G, SM-70S, etc.
- Flux Cored Wire : SF-71, SF-71LF, SF-71LH, etc.

Power source characteristics

Inverter Welding machine

- ▶ CO₂, MAG Welding / GOUGING (M meaning : Multifunctional)
- ▶ General purpose inverter welding machine that can replace conventional SCR welding power sources
- ▶ Compatible with analog and digital feeders

Enhanced durability

- ▶ A built-in protection circuit enhances durability against short cables, IGBT overcurrent, and abnormal operations to prevent semiconductor and control board damage

Arc volume control by electronic reactor

- ▶ Various welding methods are possible depending on the wire diameter and current

Start current control function

- ▶ Optimum Arc start for every wire diameter
- ▶ Increased welding quality from Arc characteristics

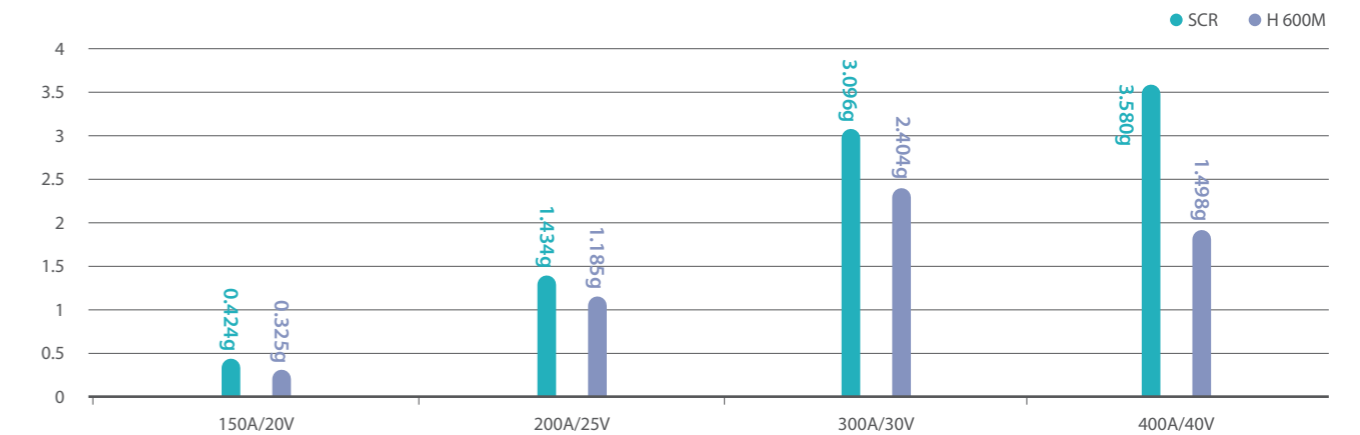
HIGH POWER EFFICIENCY

Comparison and evaluation of power efficiency : Output 400A / 33V standard

Item	Hyundai SCR welding machine	H 600M
Power factor	0.590	0.934
Active power	16.42	14.41
Apparent power	27.78	15.43
Efficiency	80.9	91.4

- As the power factor increases, the electricity charge decreases
- Able to reduce power receiving capacity

Solid Wire Spatter rate comparison



Welding condition	150A/20V	200A/25V	300A/30V	400A/38V
Spatter(g)	0.423g	1.434g	1.547g	1.491g
SCR				
Spatter(g)	0.324g	1.185g	1.204g	0.812g
H 600M				