

INDUCTION HEATING INVERTER SHG

SHG series is an air-cooled induction heating system, highly versatile used for different applications.

SHG is a compact tool, largely used for indoor application but, because of the high IP protection and the stainless steel enclosure, it is a perfect solution also for field application or heat treatment on project sites.

With SHG system, operators are not exposed to open flame, explosive gases and hot elements associated with fuel gas heating and resistance heating.

SHG has an easy friendly interface that do not require skilled personnel for the use.



	SHG 80	SHG 120
Input voltage	380 ÷ 480 VAC 3 Phase 50/60 Hz	
Input current	150 ÷ 120 A	230 ÷ 185 A
Input power factor	≥ 0,9	
Efficiency	≥ 95%	
Output power	80kW	120kW
Duty cycle	Up to 100%	
Output frequency	3 ÷ 20 kHz	
Max Output current	400 A	600 A
Max Output voltage	≤ 1000	
Overload	110% (max 1 minute)	
Operating temperature	-20°/+40° C	-4°/+104° F
Storage temperature	-30°/+60° C	-22°/+140° F
Cooling type	Air cooled	
Enclosure protection	IP 20	
Output connectors	Powerlock - Leviton - Gifas	
Dimension	750 x 900 x 1200 mm	30 x 35 x 47 Inches
Weight	260Kg 537lb	300Kg 661lb

Main Applications

- Welding preheating
- Coating preheating & curing
- Post weld heat treatment (PWHT)
- Stress relieving
- Hydrogen bake out
- Shrink fit
- Coating removal

Main benefit of Induction heating system

- High efficiency
- Faster heating cycles
- Localised and uniform heating areas
- Reduced oxidation
- Consistent results
- Higher production rate
- Energy consumption savings
- Improved working environment

TESI Spa

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According to the application SHG serie is connected with different type of inductors:

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|-------------------------------|-------------------------|
| • Flexible induction blankets | Welding preheat |
| • Close/openable coil | Welding preheat |
| • Loose cable | PWHT - Stress relieving |
| • Openable clamp-coil | Coating preheat |
| • Special coil | Hydrogen bake out |
| • Rigid coil | Shrink fit |

TESI supply a complete set of accessories including

- Replaceable blanket protection
- Induction cables
- Thermocouples & Temperature probes
- Insulating materials
- Digital recorder



SHG used to power flexible induction blankets used for welding pre-heating



SHG used to power typical closed coil used for welding pre-heating



SHG used to power typical closed coil used for coating pre-heating