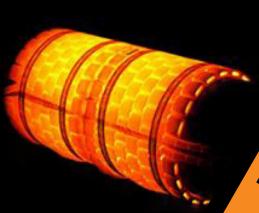
Output 10,8 kW Weight 17 kg Mobility Reliability Flexibility



Controlled preheating and cooling of welded materials. Thermal annealing and tempering of materials. Multizonal regulation for using more units. Simple use, 20 thermal profiles, integrated recorder.





Future generation of heating sources.

INVERTER SOURCE

The powerful portable source DHC6510 for resistance heating is designed as a small, light-weight, and efficient three-phase digital source for industrial use. Its undeniable advantages include an integrated digital regulator with continuous regulation of heating power, a recorder, small dimensions, low weight, and high efficiency in comparison with standard sources, facilitating both handling and transport. Thanks to its small dimensions and low weight the source may be used for fast service applications or in places with difficult access.

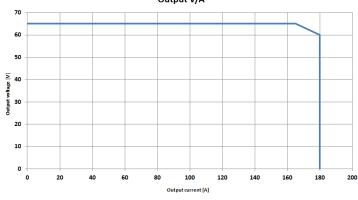
Use

- · Controlled preheating and cooling of welded materials
- Thermal annealing and tempering and other material thermal processing
- The DHC source is applicable in production, maintenance, and repairs activities.

Specifications

- · High output with small dimensions and low weight 10 kW at 17 kg
- Possible connection of resistance elements from 24 to 65 V, 10.8 kW
- · Simple handling and easy-to-read display
- Possible interconnection of more units of the master-slave type for gaining higher output
- · Continuous regulation of input power (voltage)
- · Complete set consisting of the source, regulator, and recorder
- Programmable temperature regulator -25 °C to 1,200 °C
- · Saving up to 20 thermal profiles with max. 180 segments
- Control according to a set thermal profile or manually to required temperature or output
- Two settable alarms
- Integrated recorder of temperature and output with up to 64 hr of recording
- · Possible connection of external recorder

Output characteristics of the inverter Output V/A





- 1 ON button to start / stop heating
- 2 PV, SV and MV displays
- 3 Control buttons for process programming and recording
- 4 SET selection button
- 5 + and buttons for value selection
- **6** Connector for connecting a thermocouple
- 7 Connector for connecting another MASTER/SLAVE inverter and for downloading data from the recorder
- 8 Quick-couplers + and for connecting elements

Technical data of the inverter

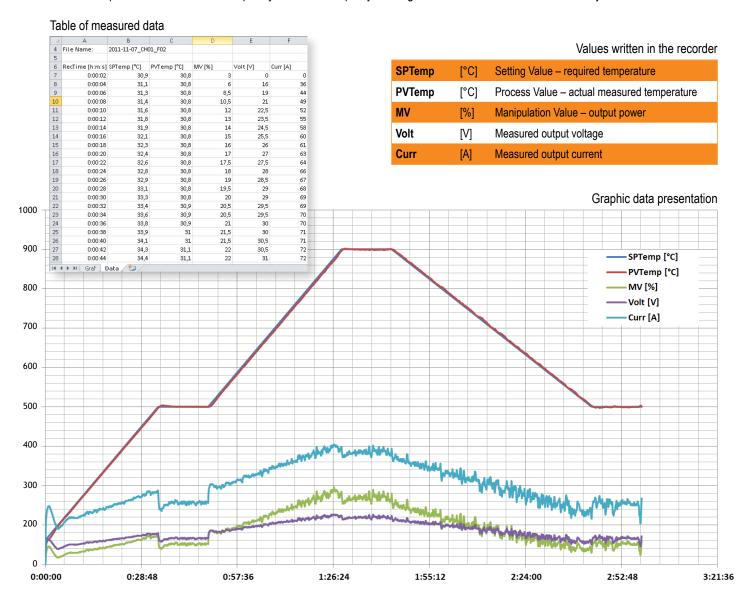
Output voltage/current	0-65 V / 160 A, 0-65 V / 180 A, continuously regulated, CV/CC
Load	Resistance heating elements 24-65 V (30/60 V type)
Supply voltage/current	3~400 V, 50/60 Hz, 23 A
Feed protection	25 A
Thermal sensor	K-type thermocouple, galvanically insulated output
Measuring/regulation range	-40 °C to 1,350 °C / -25 °C to 1,200 °C
Alarm	2 settable (deviation SV/PV, reaching temperature, etc.)
Failure detection	Thermocouple disconnection, overloading, overheating, short-circuit on output, etc.
Multizonal regulation	Yes, master/slave type, max. 9 units
Operating temperature / protection	-20 °C to 40 °C (with limited output up to 50 °C)
Dimensions and weight	170x370x405 mm, 17 kg
Certification	CE

INTEGRATED DIGITAL REGULATOR AND RECORDER

Regulator and recorder

Temperature may be controlled with any of 20 user-settable thermal profiles/programmes with up to 180 segments, or directly to the user-set temperature which may be changed at any time. The user may set the heating/cooling temperature, time for which a set temperature is to be maintained, and target temperature, independently in each segment of the profile as well as in the temperature control manual mode. The heating power may be controlled also directly.

The regulator is equipped with a user lock in the menu for locking the PID values setting. The device is fitted with an integrated digital recorder of the heating process with 64 hr recording capacity. Data may be transmitted to a PC for further processing in order to document the heating process or its control. This provides the maximum complexity as well as simplicity of using the device the control of which is easy to learn.



Technical data of the regulator and recorder

Control	Temperature regulation acc. to a set thermal programme Regulation to a set temperature Regulation of heating (output) power
Thermal profiles	20 settable profiles with 9 segments each, max. 180 segments
Profiles lining / cycling	Yes / Yes
Segment parameters	Ramp OFF / 1 999 °C/hr Setpoint -25 °C 1,200 °C Hold time OFF 9,999 min
Regulator	Digital PID, user-settable
Recorder	64 hr of recording, saving PV/SP/MV and error conditions
Data download	With 485/USB to a PC into a text editor (direct import to excel)



ACCESSORIES

Basic accessories

- · Instructions for use in English
- CD with software for downloading measured data from the recorder (only with DHC6510R)
- Connector with a cable for downloading measured data (only with DHC6510R)



Other accessories

- · Trolley with a handle for 3 and 6 sources
- Resistance ceramic elements
- Cable quick-couplers and reducers
- · Insulation means

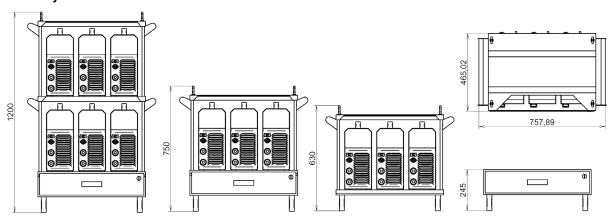


TROL-DHC trolley use variations





TROL-DHC trolley dimensions



Order codes of devices and accessories

Model	Description
DHC6510	Heating unit (without recorder)
DHC6510R	Heating unit with recorder (incl. a cable for data downloading and software)
DHC-CABLE-X	Connecting cable for multizonal regulation, X = No. of units / zones
DHC-TROL-3/-6	Trolley for 3/6 units
DHC-ELEM	Elements
REC-CON	Connector for connecting external temperature recorder

We reserve the right to make changes without prior notice. © 2012

