Texte für hb\_tec\_en

* Technical Data operating voltage: 10.5V – 14.98V DC
* Max. switching capacity excl. additive cooling: 75W (6A)
* Max. switching capacity incl. additive cooling: 350W (28A)
* Internal power consumption: (Standby): approx. 25mA
* Internal power consumption: (active): approx. 45mA
* Microprocessor: ATMega 328, 16 Mhz, TQFP-Case

Features

* Double-layer mainboard in industrial quality (RoHS, HAL, LF)
* Highly precise, digital, temperature sensor: DS-18B20, resolution better than 0,5°C
* Non-powered controlled Hex-FET power amplifier, no relay contacts
* Free selectable target temperature from 20°C to 50°C
* Free adjustable hysteresis (temperature loss until re-heating)
* Free adjustable intermission of convection for gravitational convection (mechanical ventilation by thermal exchange) to achieve better efficiency
* Adjustable capacity of supply battery (in self-sufficient mode)
* Precise electronically power measuring by µHall-Chip ACS 712
* Adjustable warning level for consumed energy (function can be switched-off)
* Amount of consumed energy at switch-off is stored (continues counting with next switch-on) (function can be switched-off)
* Adjustable emergency shut-down by capacity (protection against exhaustive discharge)
* Integrated voltage monitoring of the supply battery with automatic emergency shut-down at undervoltage
* Adjustment by digital rotary encoder
* All set values are autosaved in internal storage
* Reset to default settings by button press
* 2x16 character display, illuminated with adjustable contrast. Also available as 4x16 character display!
* Port for beeper (signal generator included in the scope of delivery)
* Current temperature, target temperature, system state, consumed energy in mAh and remaining capacity (as a percentage) of the supply battery are displayed (self-sufficient, independent of mains power supply, display depends on the type power supply, protective features are disabled power supply is external)
* Updateable and upgradeable (hardware and software extension,/ FTDI-port and Extension-port)
* Timer to switch-on heating adjustable up to 24h

Ab v1.2.0 (additional board)

* Detection of internal battery or external power supply
* Connection for additional ventilator up to 350 mA consumption, adjustable duty cycle and running time