CLP Kombi 1012-50

Combined device: Inverter and charger in a light and compact design with switching technology, also suitable for operating sensitive consumers.

// Compact, lightweight and powerful
// Short-circuit proof
// Suitable for all common batteries

One device - two functionalities: Combined devices are inverters and chargers in one housing - saving you a lot of space in your vehicle. They are designed for 12 V and 24 V on-board power supply systems and provide a 230 V AC voltage on the output side. The charging current is adjustable - independent of the battery system. All standard lead batteries as well as lithium batteries can be charged. Thanks to the integrated mains priority circuit, your battery is only charged when there is no mains power from an external power supply. Likewise, your consumers will continue to be supplied almost without delay, even in the vehicle hall.
The mains priority circuit enables automatic changeover from inverter operation to power supply via an external feed. Of course, the combi units are short-circuit protected, they switch off if the temperature is too high or in case of overvoltage, and they allow easy control of all parameters via coloured LEDs. With a comparatively low weight, the installation of a combi unit reduces the wiring effort, saves space and cash. In addition, possible sources of error are reduced. Clayton Power's combi units are based on the popular CLP inverters and therefore also have the option of direct communication (singlewire) with Clayton lithium batteries. The G3 remote display can also be used with the combi units.

Technical Information

Nominal voltage (battery)	12 V*
Output power (AC), continuous	1,000*
Charging characteristic	IU1U2
Charging current (adjustable)	0 A ... 50 A
Cos ?	0.9
Current reduction at +50 °C	0 %
Current reduction at +60 °C	15 %
Current reduction at +80 °C	50 %
Cut-off temperature	+ 80 °C
Cut-off voltage (DC), response time 10 s	9 V
Cut-off voltage (DC), response time 3 s	10.5 V
Frequency range, supply voltage (AC)	45 Hz ... 65 Hz
Input voltage (AC), max.	265 V
Input voltage (DC), max.	15 V
Integrated input fuse	10 A
International Protection (IP class)	IP21
Level of efficiency	? 90 %
Main charge	15.4 V
Dimensions (L x W x H)	299 x 198 x 116 mm
Weight	6 kg

*In the chosen option

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Technical Information

Max. current peaks	100 A
Min. voltage for main charge	185 V
Min. voltage for trickle charge	110 V
Nominal voltage	230 V
Operating temperature	-20 °C ... +50 °C
Output frequency	50 Hz
Overload (1 s)	2,000 W
Overload (10 s)	1,500 W
Overload (15 min)	1,200 W
Self-consumption (idling with search timing)	< 2 W
Self-consumption (norm. idle)	10 W
Self-consumption (standby)	< 5 mA
Switch-on voltage (DC), auto-restart	12.75 V
Temperature sensor	Optional
Total Harmonic Distortion (THD)	< 3 %
Trickle charge	13.5 V
Type of battery	Lead acid (wet, gel, AGM) and lithium
Voltage tolerance	-10 % ... +5 %
Voltage wave form	Sine

*In the chosen option