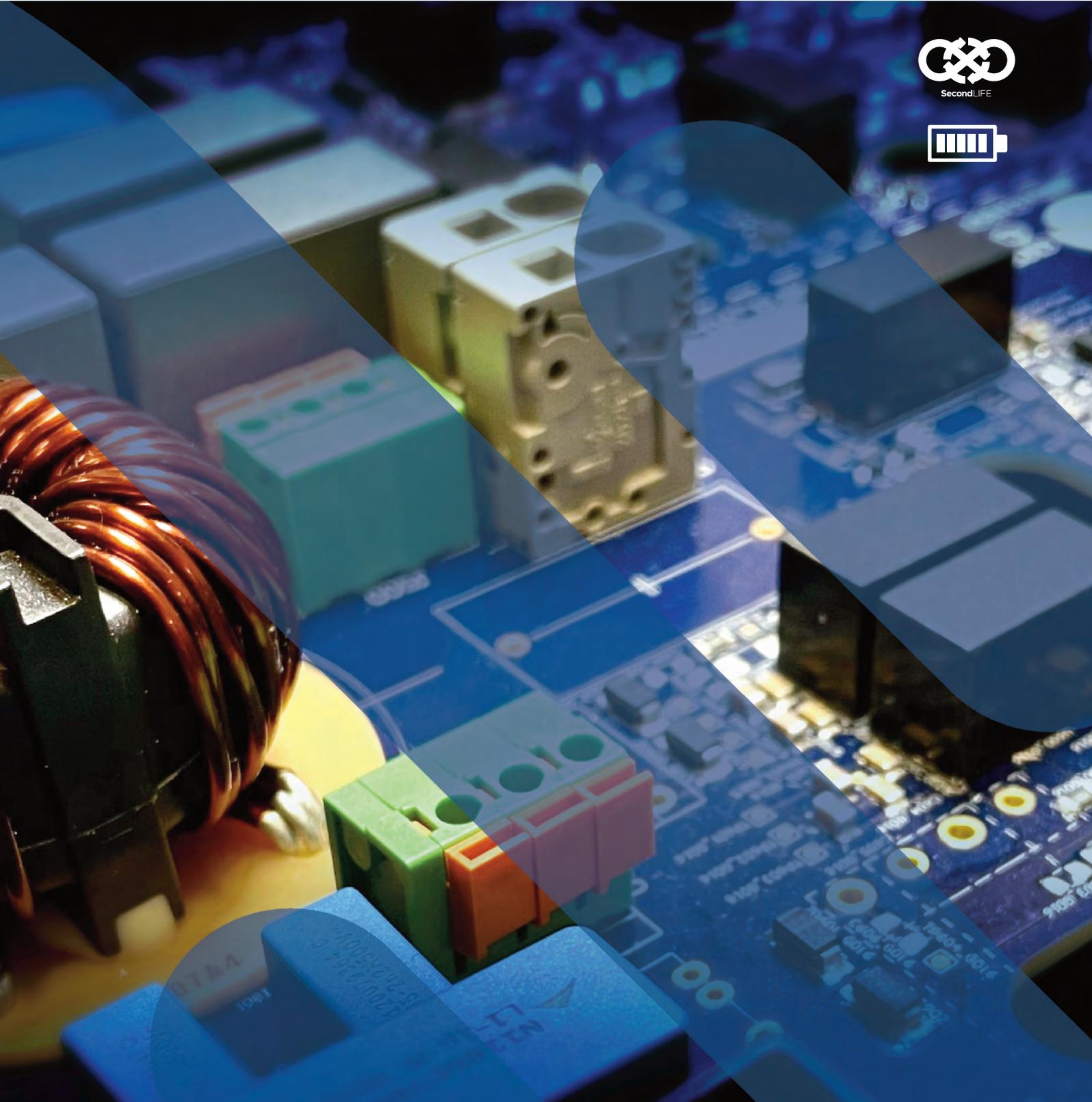




ambiCONVERT Battery



Specifications

Version:	20A	70A
Input power nominal: (@450V DC)	9kW	31,5kW
Input power max.:	20kW	70kW
Input voltage range:	40V – 1000V DC	
Starting voltage:	30V DC	
Input Channels:	1	1
Input current max.:	20A	70A
Output power nominal: (@750V DC)	15kW	52,5kW
Output power max.:	17kW	59,5kW
Output voltage range:	48V .. 850V DC	
Max. efficiency:	> 98%	
Safety and protection:	Rapid discharge DC Bus and DC Output Over current monitoring Reverse polarity protection Temperature monitoring Self-test	
Dimensions:	19" / 3U / 700mm	
Weight:	< 20kg	
Operating temperature:	0 – 40°C	
Installation site:	indoor, no direct sunlight	
Humidity:	5% – 95%, non-condensing	
Max. installation altitude:	2000m	
Storage temperature:	-20 – 60°C	
Standards:	CE, EN61204-3, EN55011, EN60664-1, EN61140	
Communication:	CAN, other on request	
Cooling:	active, built-in fans	
Noise:	@1m, full load, tbd dB(A) @40°C	
Topology:	transformer less	
IP class:	IP20	
Degree of contamination:	2	
Protection class:	1	

Options / Customization

Communication via
Modbus RTU / TCP
Electric vehicle batteries
Only Communication unit
Housing

Features

Bidirectional
Adoption of voltage levels
Conversion of communication
Multiple battery support
Individual data collection
Individual / single battery control

Batteries out of electric vehicles have special needs out of there design for automotive. To use second and first life automotive batteries in stationary applications the communication and electrical parameters must be converted.

The **ambiCONVERT Battery** with its patented DCDC Flow Technology allows the use of multiple, different EV batteries in non-automotiv applications. With its modern power electronics design and control algorithm the **ambiCONVERT** allows

to individual control the power flow for each battery.

The **ambiCONVERT Battery** is also the right choice for connecting all other batteries to different types of inverters and DC grids.

ambibox

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All parameters not specially mentioned are measured at 450V DC input, rated load and 20°C ambient temperature. Ripple & noise are measured at 20MHz bandwidth by using a standard probe. This product is considered a component which will be installed into the end product. The end product must be re-confirmed that it still meets the EMC directives. This product is intended for European Mains connections. Grid connectivity settings can differentiate depending on country codes. (certification pending). This is a preliminary datasheet. Specifications are subjected to change without notice. The contents of this brochure have been prepared with the greatest possible care. However, no guarantee is given for the correctness, completeness and up-to-dateness of the information and illustrations. We reserve the right to make changes and illustrations may differ. All product names are trademarks and registered trademarks of their respective owners.