AKKU POWER

AP 18 V

**18 V battery system.
The high-quality standard solution for
cordless power tools.**

DATASHEET

MODULAR. RELIABLE. FULLY INTEGRATED.

A powerful platform for many different
mobile applications.

AKKU POWER

FITS PERFECTLY. RUNS PERFECTLY.

The Akku Power 18 V system combines high quality, reliability, durability and safety in a powerful complete solution for supplying power to many different electrical devices. Since all components are perfectly matched to each other, the system can be easily and cost-effectively integrated into many different mobile applications.

THE MOST IMPORTANT ADVANTAGES AT A GLANCE

Modular complete system:
Battery, charger, tool interface, motor controller and mains connector – perfectly matched

Two battery sizes:
2.5 Ah and 5.0 Ah with identical base area

Available worldwide

Motor controller for Brushless DC and Brush DC:
compact, durable, maintenance-free

Fast and efficient charging

Easy battery replacement
via secure contact holder

Ready-to-integrate platform
– reduces development costs

Global approval

Fast time to market

Integrated BMS
for maximum safety and cell protection

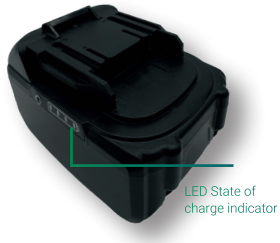
Maximum safety and cell protection against

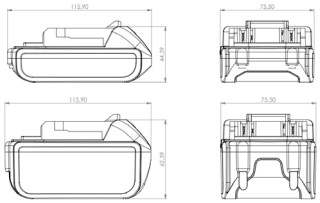
- Short-circuit protection
- Overcharge protection
- Optional deep discharge protection
- Cell voltage monitoring
- Temperature protection

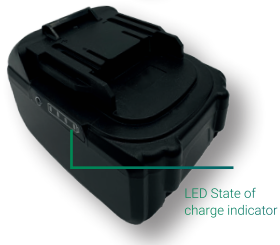
AKKU POWER

DATASHEET **18 V BATTERY SYSTEM**

18 V Battery Packs with 2.5 Ah and 5.0 Ah



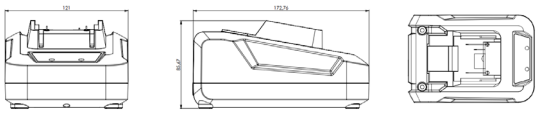




Integrated Battery Management System (BMS):
- Short-circuit protection
- Overcharge protection
- Optional deep discharge protection
- Cell voltage monitoring
- Temperature protection

Technial Data	5S1P	5S2P
Nominal Rated Voltage	18 V	18 V
Nominal energy	45 Wh	90 Wh
Max. continuous discharge current	20 A	40 A
Max. charge current	5 A	7 A
Max. charge voltage	20.75 V	20.75 V
Operating Temperature	-20°C to +65°C	-20°C to +65°C
Weight	~450 g	~670 g

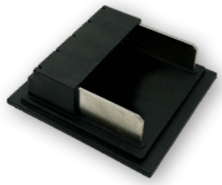
Charger L1845



Technical Data	Specification
Input Voltage	100 V–240 V
Power	Max. 90 W
Charging Current	max. 4.0 A
Dimensions (H × W × D)	120 × 140 × 200 mm
Weight	545 g
Interface	flexible
Certifications (EU)	EN 60335-1, EN 60335-2-29, EN 55014, EN 61000-3-2/3, EN 50581
Certifications (US)	UL 1012:2010 8th Ed., CSA C22.2 107.1:2001

Contact Holder

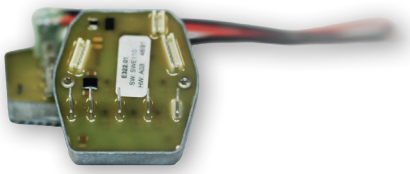
1. Mechanical and electrical interface for seamless battery integration
2. Supports fast, safe battery exchange
3. Compatible with both battery variants



Controller for Brushless DC Motor (BLDC)

in different voltage ranges available

up to 1000 W



Mains connector

Plug & Play.
In continuous operation, situations can arise where all batteries are discharged. For these cases, we developed our patented Pulse- operated mainsconnector with extra-long 5m cable. Permanent operation 30 A. Pulse Mode 600 Watt

Safety Features

- Overload protections
- Short circuit protection
- Overheating protection

AKKU POWER

About Akku Power

AKKU POWER, based in Schorndorf, Germany, is a leading international developer and manufacturer of innovative, high-performance battery systems that provide you with a reliable, mains-independent power supply – whether for trade, everyday use or on the go. Our solutions combine state-of-the-art technology with high-quality components and maximum efficiency.
We offer a wide range of ready-to-use battery products for tradespeople, small businesses, start-ups and end customers: from power and garden tools to e-mobility, home storage and lifestyle applications. With AKKU POWER, you are always flexible, independent and well equipped for the mobile energy supply of tomorrow.

AKKU POWER GmbH
Gottlob-Bauknecht-Str. 5 | D-73614 Schorndorf
Phone +49 (0)7181-97735-0 | Fax +49 (0)7181-97735-29

www.akku-power.com | info@akku-power.com