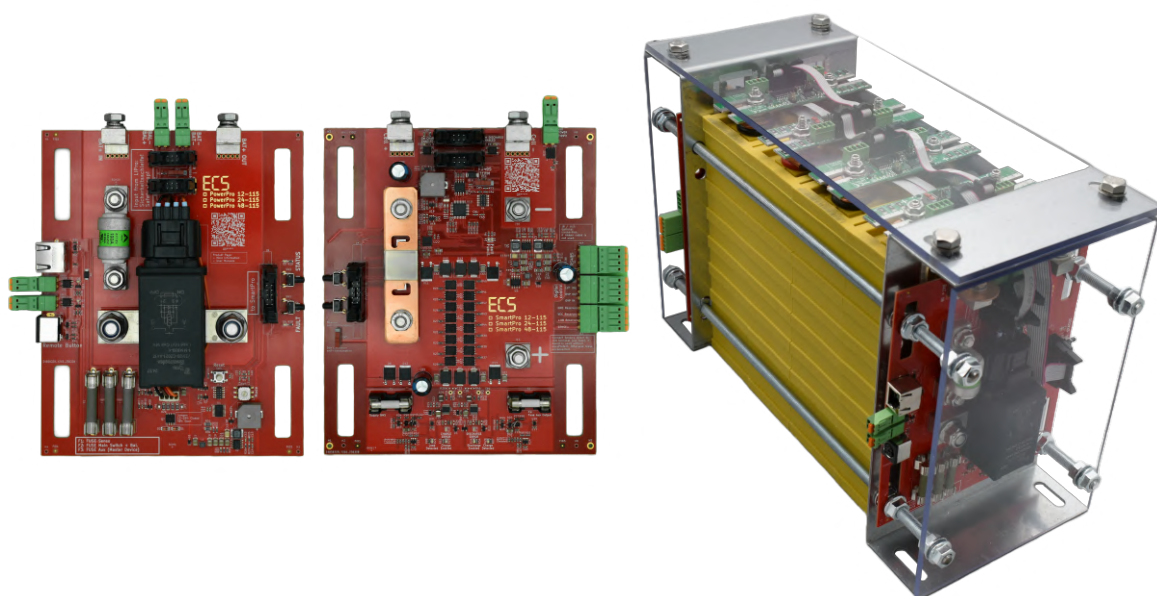




SMART BATTERY PACK WITH WINSTON CELLS

# Supremo 160 Ah

Supremo is our complete solution for self-sufficient power supply. All the important functions of a complete battery system are combined in a compact design. Winston cells were selected as the basis, which are characterized by an extremely robust design, and these cells also allow charging below 0 °C. In addition to the typical BMS functions such as cell monitoring, temperature monitoring and MOSFET switches, a highly accurate battery monitor is also installed. This provides further diagnostic functions (internal resistance, SOH, efficiency, total charged energy and much more). Supremo has a “Secondary Protection” function, which switches the system off in the event of a fault. The main fuse and a remote-controlled main switch are already integrated. In conjunction with the large equalizing current of the balancers, the cells enable a high charging and discharging current. Extensive overvoltage protection measures are in place to protect the electronics and the connected devices; these absorb voltage peaks caused by line inductances.



Made in Germany

## Product features and advantages

- High charging and discharging currents up to 1.5 C
- Charging also possible at temperatures below 0 °C
- Integrated main switch, can be operated remotely or locally
- Integrated main fuse (Adler Elektrotechnik with > 20 kA breaking capacity)
- Battery monitor with extensive diagnostic functions complies with EU BattVO 2023/1542
- Integrated secondary protection
- Current measuring amplifier with < 0.1  $\mu\text{V}/^\circ\text{C}$  drift
- Impact-resistant 5 mm polycarbonate covers
- Sturdy mounting brackets, 2 mm steel
- Alarm buzzer
- Temperature monitoring on each cell

[www.ecs-online.org](http://www.ecs-online.org)  
[mail@ecs-online.org](mailto:mail@ecs-online.org)  
+49 (0) 6507 9989955

ECS Falko Jahn e.K.  
Am Wenigerflur 14  
54498 Piesport





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Am Wenigerflur 14  
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# Supremo 160 Ah

	Supremo 12-160	Supremo 24-160	Supremo 48-160	Unit
	Electrical data			
Nominal system voltage	12,8	25,6	51,2	V
Maximum operating voltage	14,65	29,3	58,6	V
Max continuous current	240			A
Max peak current	1300 (for 1 ms)			A
Max continuous power	1600	3200	6400	W
Max fuse	300			A
Standard charging and discharging current	80			A
Nominal capacity	160			Ah
Cycle life (80% DOD, 20 °C, 80% SOH)	5000			
Ambient temperature range	-40 to +55			°C
Internal resistance	< 2,5	< 4,5	< 7,5	mΩ
	Overvoltage protection			
Breakdown voltage	17,5	35	70	V
Peak current 10/1000 µs pulses	20	40	80	kW
	Control system			
Power consumption when switched on	< 0.2			W
Power consumption when switched off (storage)	30			mW
All components switched off Cells charged to 100%, Temperature 25 °C ± 5 °C	> 1 year			
	Mechanical data			
Dimensions (LxWxH) without plug	404 x 242 x 344			mm
Weight	30			kg
High-current connection terminals	2x M8 bolts Optional Anderson Powerpole connectors			mm
Protection class	IP00			

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