

DEUTZ High Performance NMC Battery



High power discharge and charge capabilities

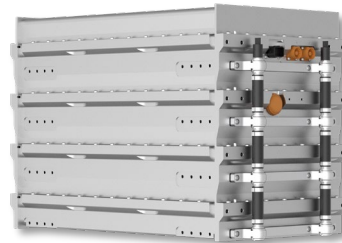
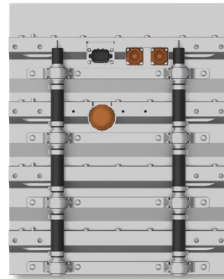
- **Powerful:** Up to 800 V & 600 A
- **Sustainable:** No CO₂ emissions with green energy
- **Robust:** Designed for Off-Highway applications
- **Compact:** Formfactor for engine compartments or narrow spaces
- **Flexible:** Parallel and serial connection



DEUTZ High Performance NMC Battery



GEN2 – E360 39 kWh



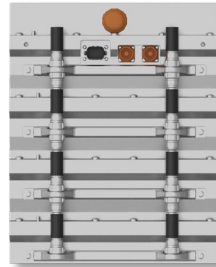
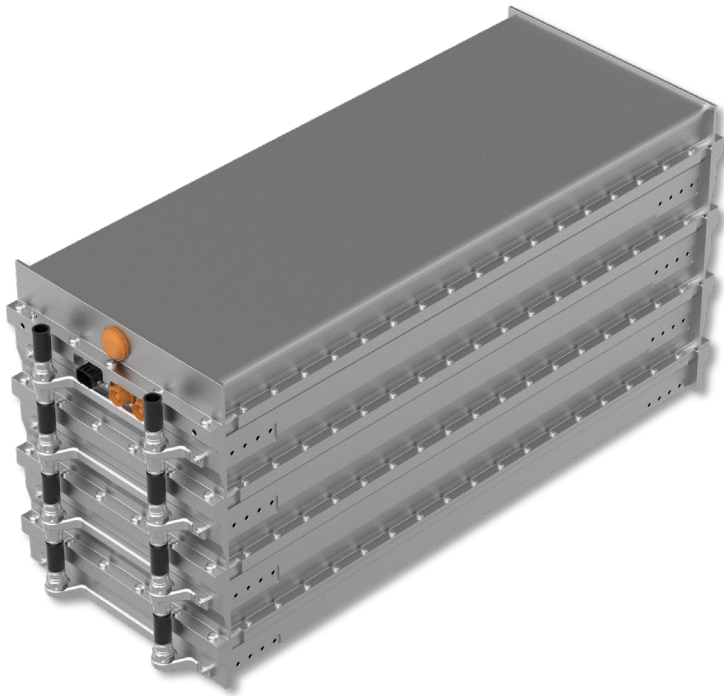
Technical Data

Battery type	Li-Ion (NMC)
Nominal voltage	335 V
Voltage range	303 – 377 V
Nominal capacity	38.6 kWh
Usable capacity (@ 90 % DoD)	34.7 kWh
Discharge current (cont. / max.)	176 A / 500 A (10s)
Charge current (cont. / max.)	106 A / 384 A (10s)
Cooling	Water/glycol cooled with water/air heat exchanger
Operating cell temperature	-30 °C to 55 °C
IP protective class	IP67, IP6k9k
Full equivalent cycles during lifetime (until 70 % SoH & 0.5C/1C CH/DCH)	2500
Dimensions (L x W x H)	766 x 440 x 550 mm
Weight	275 kg
Vol. & grav. energy density	208 Wh/l & 140 Wh/kg

DEUTZ High Performance NMC Battery



GEN2 – E360 59 kWh



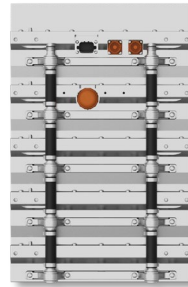
Technical Data

Battery type	Li-Ion (NMC)
Nominal voltage	343 V
Voltage range	310 – 385 V
Nominal capacity	59.2 kWh
Usable capacity (@ 90 % DoD)	53.3 kWh
Discharge current (cont. / max.)	250 A / 600 A (10s)
Charge current (cont. / max.)	158 A / 576 A (10s)
Cooling	Water/glycol cooled with water/air heat exchanger
Operating cell temperature	-30 °C to 55 °C
IP protective class	IP67, IP6k9k
Full equivalent cycles during lifetime (until 70 % SoH & 0.5C/1C CH/DCH)	2500
Dimensions (L x W x H)	1078 x 440 x 550 mm
Weight	405 kg
Vol. & grav. energy density	226 Wh/l & 146 Wh/kg

DEUTZ High Performance NMC Battery



GEN2 – E700 75 kWh



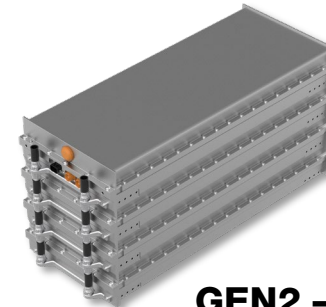
Technical Data

Battery type	Li-Ion (NMC)
Nominal voltage	647 V
Voltage range	478 - 757 V
Nominal capacity	75.1 kWh
Usable capacity (@ 90 % DoD)	67.6 kWh
Discharge current (cont. / max.)	180 / 500 A 117 / 323 kW
Charge current (cont. / max.)	123 / 376 A 76 / 243 kW
Cooling	Water/glycol cooled with water/air heat exchanger
Operating cell temperature	-30 °C to 55 °C
IP protective class	IP67, IP6k9k
Full equivalent cycles during lifetime (until 70 % SoH & 0.5C/1C CH/DCH)	2500
Dimensions (L x W x H)	1078 x 440 x 678 mm
Weight	485 kg
Vol. & grav. energy density	232 Wh/l & 154 Wh/kg

DEUTZ High Performance NMC Battery



DEUTZ GEN2 Modular Battery Kit



HV-Battery	Unit	GEN2 - E360 39	GEN2 - E360 59	GEN2 - E700 75
Nominal Capacity	kWh	38.6	59.2	75
Nominal Voltage	V	335	343	647
Discharge Current / Power (nom./max) @ U _{nom}	A	176 A / 500 A (10s)	250 A / 600 A (10s)	176 A / 500 A (10s)
Conditioning (Optional)	-	Cooling and Heating	Cooling and Heating	Cooling and Heating
Energy Density (vol. grav.)	Wh/l Wh/kg	208 140	226 146	232 154
Configuration	-	4x4	6x4	6x5
Dimensions – Length	mm	766	1078	1078
Dimensions – Height	mm	550	550	678
Dimensions – Width	mm	440	440	440
Availability (PT series)	-	2023 2024	2024 2025	2025

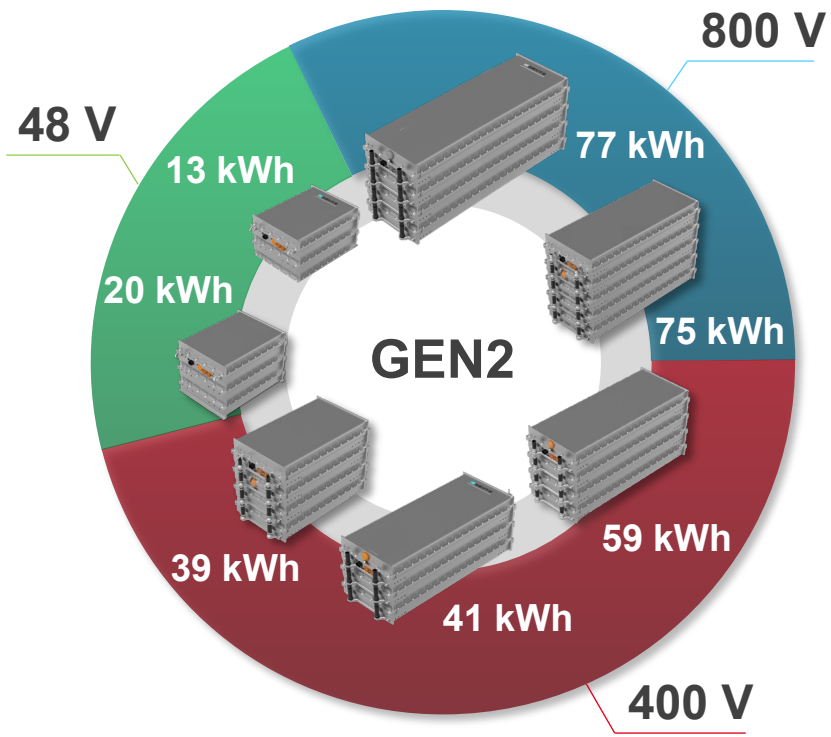
Dimensions excluding fixings

DEUTZ Batteries



Modular battery kit

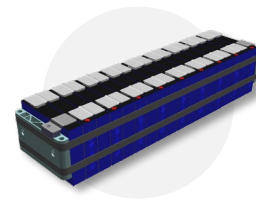
NMC & soon LFP available



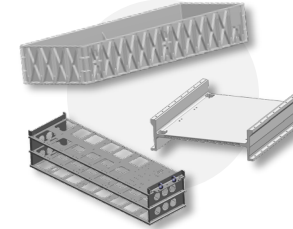
Customized solutions

NMC & LFP available

Optimised cell attributes



Housing:
perfect fit to your needs



Tailored electronics

