

UVES ENERGY 4.0 88 & 177



Environmental condition

	Parameter	Value	
Ambient temperature	Charging	-20°C ÷ +55°C	
	Discharging	-20°C ÷ +55°C	
	Storage	-30 °C – 60 °C	<30 days
		0 °C – 25 °C	>30 days
Conditions	Operating/storage humidity (No Condensation)		
	Operating/storage atmospheric pressure		

Battery Pack Parameters:

	Parameter	Value		Comments
	Cell chemistry	NMC		
	Configuration of cells	180S1P	2 x 180S1P	Two independent strings in UVES 4.0 177
Energy	Nominal	88.45 kWh	176.9 kWh	
	Usable for SOC 5-95%	79.6 kWh	159.2 kWh	Max range
	Energy density	202 Wh/kg	210 Wh/kg	
Capacity	Rated capacity	136.5 Ah	273 Ah	@1/3C discharge; 25°C
	Usable capacity (SOC 5-95%)	122.85 Ah	245.7 Ah	
Voltage	Minimal operating	520 V		
	Minimal operating (SOC 5%)	595,8 V		
	Nominal operating	648 V		
	Maximal operating (SOC 95%)	740 V		
	Maximal operating	750 V		
Current	Discharge continuous	140 A	280 A	Depends on temperature and SOC
	Discharge pulse @10 sec.	200 A	400 A	Depends on temperature and SOC
	Charge continuous	140 A	280 A	Depends on temperature and SOC
	Charge pulse @10 sec.	200 A	400 A	Depends on temperature and SOC
Other	Recommended SOC operation range	5 – 95%		Max range
	Degrees Of Protection Provided by Enclosure	IP 6K5		Acc. ISO 20653:2023
	Withstand voltage			
	Dimensions (L x W x H)	1091 x 775 x 403 mm	1871 x 775 x 403 mm	Without brackets
Low voltage installation	Weight	438 kg	843 kg	Without brackets ±10kg
	BMS supply voltage	24 V		
	BMS supply voltage range	18 ÷ 32 V		
	Communication interface			

