VOLTAHPOWER

TECHNICAL DATA SHEET
2025.06

VP-A 430 Rapid Charge&Discharge Battery Pack

Power Battery System For EV

High energy density and long cycle life	+ Volumetric energy density: 430 Wh/L. + Exceeding 7000 cycles + 3C charge & discharge rate
Adaptable to various applications	+ Wide voltage range for system configuration + Standardized pack + Multi-stream extension
High reliability and safety	+ Pack with strong shock resistance and impact resistance + BMS complie with ISO 26262 + Highly efficient three-sided cooling system + Ingress Protection Rating: IP68
Fast delivery	+ 4 weeks

SYSTEM TECHNICAL SPECIFICATIONS & CHARACTERISTICS

VP-A 430 High-Power Li-ion NCM Battery System

PHYSICAL SPECIFICATIONS	CONDITIONS	UNIT	CELL	CONFIGURATION
				1P171S
VOLTAGE				
Nominal		V	3.7	632.7
ENERGY / CAPACITY				
Nominal energy	C/3, BOL, @25℃	KWh	0.178	30.37
Nominal capacity	C/3, BOL, @25℃	Ah	48	48
POWER				
Continuous power in charge	SOC50%,@25℃	kW	0.53	91.11
Continuous power in discharge			0.53	91.11
Peak power in charge 10s	SOC50%,@25℃	kW	1.42	242.96
Peak power in discharge 10s			1.78	303.7
CURRENT				
Continuous current in charge	SOC50%,@25℃	A	144	144
Continuous current in discharge			144	144
Peak current in charge 10s	SOC50%,@25℃	A	384	384
Peak current in discharge 10s			480	480
ENERGY				
Weight energy density	-	Wh/kg	205	145
Volume energy density	-	Wh/L	430	171
MECHANICAL CHARACTERISTICS				
Weight		kg	0.85	210
Height		mm	204	660
Width		mm	290	1090
Thickness		mm	7	247

SOC : State Of Charge BOL : Beginning Of Life