



DATASHEET

CDPOWERCELL LV & HV BATTERY MODULES



MODEL	UNITS	CD-LP51100	CD-HP51100
Description		CDPowercell LV	CDPowercell HV
Electrical Details			
Rated Voltage	Vdc	51.2	
Voltage Range	Vdc	44.8 – 58.4	
Rated Capacity	kWh	5.12 Nominal / 4.86 Usable @ 95%DOD	
Cell Type		Lithium Iron Phosphate (LFP)	
Operating Life	Cycles	5000 @0.5C, 90% DOD, 25°C, 80% SOH	
Standard Charge/Discharge Current	A	50	
Max Charge/Discharge Current	A	100	80
Communication		CAN BUS	
Series Connection		No	Yes, up to 16 battery modules
Parallel Connection		Up to 105 **Communication HUB required when more than 16	Up to 8 battery strings **Communication HUB Required when more than 1
Battery Management System (BMS)		Self-managed BMS	Requires external BMS
Physical Details			
Size (WxHxD)	mm	228 x 134 x 858.5	
Weight	kg	43	
Operating Temperature	°C	-10 - 45 Discharge 0 - 45 Charge	
Storage Temperature	°C	0 – 35 Recommended – refer to CUSTOMER MANUAL for full details	



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MODEL	UNITS	CD-LP51100	CD-HP51100
Physical Details			
Storage Humidity (Relative Humidity, no condensation)	%	0 – 95	
Storage State of Charge	%	20 – 50	
IP Rating		IP20	
Accessories			
External BMS		Not required	CD-HVB1000-80
Communication Hub		CD-CTL-LV	CD-CTL-HV
Documentation			
Operation Manual		50911951	50911961
Safety & EMC			
Safety	AS IEC62619/AS IEC 62040-1/		
EMI/EMC	UN38.3 IEC61000-6-1/2/3/4		