

LITHIUM COMPOSITION (CHEMISTRY): Graphene-LiFePO4 Nanocomposite	
ELECTRICAL	
Nominal DC Voltage	51.2 V _{dc}
Rated Energy (Capacity)	4096Wh (80Ah)
Maximum Charge Voltage	58.4 V _{dc}
Discharge Cut-off Voltage	44 V _{dc}
Cont. Charge/Discharge Current	
Maximum Discharge Power	8700 Watt
Peak (Pulse) Current	300A(2S)
DC Fault Current	>170A
Self-discharge	Below 10% Per Annum
Charge/Discharge Cycles	6000 @ 80% DoD
Class of Equipment	Class III (protected against electric shock)
DIMESNSIONS AND MATERIALS	
Pack Dimensions (L x W x T)	536 mm x 400 mm x 175 mm
Pack Weight	44 Kg
Casing Material	Heavy-duty Extruded Aluminum (3mm)
Terminal Connection	Anderson SB 175A 600V
Battery Mounting Options	Wall-mount, Rack-mount (standard 19" rack), or Floor-standing
Parallel Stacking	No limit in stacking- seek manufacturers advice
ENVIRONMENTAL CONDITIONS	
Operating Temperature Range	Charge: 0 to +55°C; Discharge: -20 to +60°C
Operating Humidity	85% (non-condensating)
Altitude	Below 2.0km
Round Trip Efficiency	> 95%
Ingress Protection Rating	IP65
Cooling	Natural convection
MANAGEMENT, COMMUNICATION AND MONITORING	
Battery Management System	Concurrent self-managed (no communication) and inverter-managed
(BMS)	(CAN/RS485 communication)
Communication and	- A CAN/RS485 line for communication between the inverter and battery
Connectivity Options	-Two RS485 lines for communication among parallel battery packs
	-A RS232 line for communication between the battery BMS tools and
	computer to monitor and manage configurations of the battery
	-An external communication interface for Wi-Fi, Bluetooth and GSM to
	monitor battery performance using Mobile App, independently of inverters
STANDARDS AND WARRANTY	
Standards Compliance	IEC62619, IEC62040, IEC61000, IEC60529, IEC60068-2-52, UN38.3, MSDS,
	and RCM
Expected Life	Greater than 10 years when used as per warranty terms
Warranty	10 years. Refer warranty document for further details