



PROTEUSTM 80



Single String (10 modules)

Energy Capacity	80 kWh
Operating Voltage Range	670-1000 V _{DC}
Charge Power, continuous	160 kW (2C rate)
Discharge Power, continuous	240 kW (3C rate)
Dimensions (L x W x H)	800 mm x 800 mm x 2165 mm (31.5" x 31.5" x 85.25")
Weight	1335 kg (2942 lbs)

KEY FEATURES

High Power



Flexible modular architecture for optimal sizing & voltage range.
Peak power of 240 kW (3C rate) charge and 320 kW (4C rate) discharge for 10 s.
Liquid cooled design enables longer life and higher power.

Safety



Certifications pending to IEC 62619, ASTM F3353, DNV GL CG-0339, UN 38.3
Type Approvals pending for DNV GL, ABS, Lloyd's Register
Prevents cell to cell propagation by limiting thermal runaway to 70°C
Isolation tested to 4 kV_{DC} and CMR of 100 kV/us.
Included over-current and ground fault protection.

Ease of Use



Lockable manual disconnect included for string LOTO.
Module replacement in 5 minutes with all rear blind mate connections.
Control and sensing redundancies improve uptime through scheduled maintenance.
String redundancy throughout BMS designed to prevent single point of system failure.

BMS



Modbus TCP communications for easy integration compatibility.
Automated high-power dynamic balancing for any SOC condition.
Universal input single phase auxiliary power including UPS backup.

energy management for our futureTM

LAVLE energy storage systems enable both hybrid and fully electric applications across multiple markets, to reduce maintenance, fuel usage, and greenhouse gas emissions. The lithium-ion based **ProteusTM** product delivers optimally sized performance, best in class safety, and redundancy options to fit your application. All our products are manufactured in the USA, and supported by our highly skilled staff, who are committed to making your energy storage project an unqualified success.