

LBT Power 500kW Liquid-Cooled Load Bank

Datasheet | Buyer Download Version



This datasheet summarizes the core buyer-facing parameters for the LBT Power 500kW liquid-cooled load bank.

Parameter	Specification
Brand	LBT Power
Product	500kW Liquid-Cooled Load Bank
Rated power	500kW
Power range	0-500kW adjustable
Load step grouping	5/5/5/5/10/15/20/50/50/50/50/50/100/100 kW
Voltage / frequency	AC400V / 50Hz / 3P5W
Rated current	Approx. 722A at AC400V, 3-phase, PF 1.0
Input connection	2 x 400A power input connectors; copper busbar power connection
Load type	Pure resistive load
Power factor	1.0
Accuracy	+/-3% loading accuracy; <=3% three-phase balance
Cooling method	Liquid-cooled power section; air-cooled control section
Cooling medium	Deionized water or deionized-water/alcohol mixture
Cooling control	Flow monitoring only; coolant flow is controlled by the external cooling system
Pressure range	1.5-4.0 bar
Pressure drop	<0.5-1.2 bar
Inlet water temperature	5-25 deg C
Design Delta T	5 deg C

Parameter	Specification
Control method	Local button switch, local touchscreen HMI, and host computer remote control
Communication	Standard communication interface; Modbus TCP/RTU and TCP/IP available as project options
Data export	Excel data export
Protection	Over-voltage, over-current, over-temperature, over-pressure, low flow, water leak, emergency stop
Dimensions	1630 x 1750 x 1180 mm
Weight	1140 kg
Environment	Indoor type; -10 deg C to +55 deg C; <=2000 m altitude
Warranty	3 months