



Li-Ion 48V LFeLi series



**-20°C~
+60°C**

TEMPERATURE RANGE

24 months

SHELF LIFE

5 Years

WARRANTY

Up to 20 years*

DESIGN LIFE

*model dependent

Lithium-Ion batteries offer extreme cyclic abilities compared to lead-acid batteries. For extreme demanding telecom applications LEOCH has developed 48V Lithium-Ion (LiFePo₄) modules to replace front terminal 48V strings of lead acid batteries. Offering more than 5000 cycles at 60% DoD, 19-inch rack mounting design facilitate easy replacement in existing installations and easy maintenance.

GENERAL FEATURES



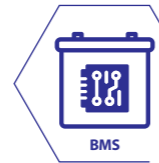
Environmentally friendly without any heavy metals inside



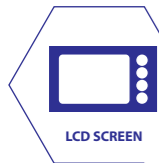
Lithium Ion Phosphate chemistry has a high thermal runaway threshold being one of the safest market lithium technology



Extreme Cycle Life, up to 3500 cycles at 100% DoD to reduce CAPEX & OPEX in demanding telecom, switchgear or hybrid applications



Advanced BMS communication protocols (Modbus, Canbus, RS232, RS485) and bespoke solutions upon request (SNMP, Anti-Theft & Tracking Systems availability)



LCD screen available for on-site tool-free monitoring. Advanced BMS with a multitude of safety and communication options available.



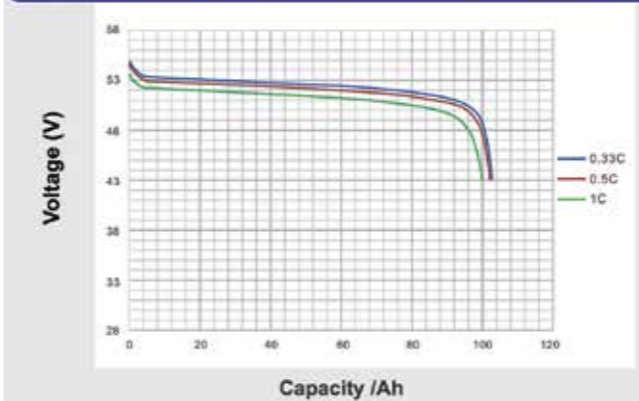
Passive cooling and electromagnetic shielded design

BATTERY SPECIFICATIONS

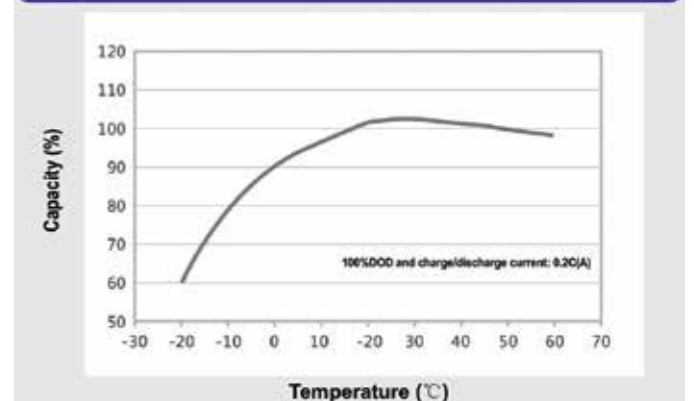
Model	Nominal Voltage (V)	Rated Capacity 10Hr @ 2.70V/cell (AH)	Approx. Dimensions								Approximate Weight		Remarks
			Length		Width		Height		Total Height		kg	lbs	
			mm	in.	mm	in.	mm	in.	mm	in.			
LFeLi-4810S	48V	10	442.00	17.40	290.00	11.42	44.00	1.73	44.00	1.73	9.50	20.94	No parallel connectivity available
LFeLi-4820S	48V	20	442.00	17.40	330.00	12.99	88.00	3.46	88.00	3.46	15.50	34.17	No parallel connectivity available
LFeLi-4850C	48V	50	443.00	17.40	442.00	17.40	132.00	5.20	132.00	5.20	32.00	70.55	Parallel connectivity available
LFeLi-4850T	48V	50	442.00	17.40	442.00	17.40	132.00	5.20	132.00	5.20	32.00	70.55	Parallel connectivity available
LFeLi-4875C	48V	75	440.00	17.40	399.00	15.71	177.00	6.97	177.00	6.97	42.00	92.59	Parallel connectivity available
LFeLi-48100F	48V	100	442.00	19.69	230.00	9.06	260.00	10.24	260.00	10.24	42.00	92.59	Parallel connectivity available
LFeLi-48100T	48V	100	500.00	17.40	431.00	16.97	177.50	6.99	177.50	6.99	43.00	94.80	Parallel connectivity available
LFeLi-48150T	48V	150	442.00	17.40	495.00	19.49	177.00	6.97	177.00	6.97	65.00	143.30	Parallel connectivity available
LFeLi-48200T	48V	200	442.00	17.40	560.00	22.05	244.00	9.61	244.00	9.61	82.00	180.78	Parallel connectivity available

PERFORMANCE CHARACTERISTICS

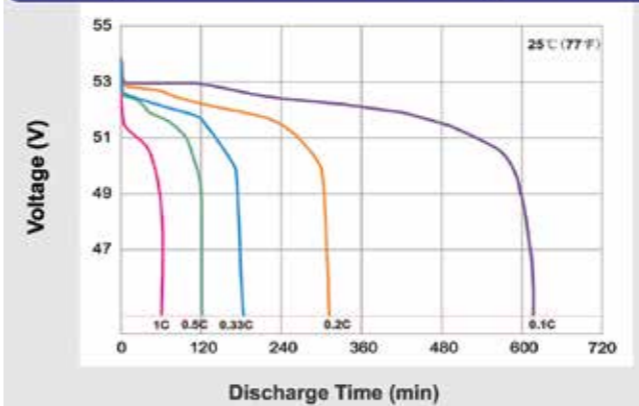
Discharge Capacity in relation to Discharge Rate



Temperature Effect in relation to Battery Capacity



Discharge Time in relation to Discharge Rate



Depth of Discharge vs Cycle Life

