LEAPTON SOLAR

SWITCH YOUR LIFE

ENERGY STORAGE SOLUTIONS

VERSION: 2026 V1

* For the most up-to-date information, please refer to the latest version of this datasheet.



LEAPTON ENERGY

OUTDOOR BESS CABINET

C240-F

DESIGNED FOR FASTER ROI IN C&I PROJECTS
Maximizes energy utilization and reduces upfront investment pressure, enabling a shorter payback period.

PROVEN, SIMPLE AND RELIABLE SYSTEM DESIGN
Built on a mature architecture to ensure stable operation, high reliability, and long service life.

LOWER O&M COST OVER SYSTEM LIFETIME
Optimized components and system design minimize maintenance needs and reduce total lifecycle costs.

EASY DEPLOYMENT, FAST COMMISSIONING
Integrated design simplifies installation and enables fast, smooth on-site commissioning.

OPTIMIZED FOR MAINSTREAM C&I APPLICATIONS
Well-suited for peak shaving, demand management, backup power, and energy cost optimization.

LEAPTON SOLAR

Headquarters: Leapton Energy Co., Ltd. TEL: 81-78-382-3182 WEB: www.leaptonenergy.jp
ADD: F6 Tosei Building 1-2-1 Aioicho Chuo-ku, Kobe-shi, Hyogo-ken 650-0025, Japan
Factory: Leapton Solar (Changshu) Co., Ltd. TEL: 86-512-88800068 WEB: www.leaptonpv.com
ADD: No.9 Sunshine Avenue, Changshu, Suzhou city, Jiangsu province, 215500, P. R. China E-MAIL: info@leaptonenergy.com

Integrated cabinet	C208-F	C224-F	C240-F
Cell Chemistry	LFP($LiFePO_4$)		
Module Energy (kWh)	16		
Module Nominal Voltage (V)	51.2		
Module Capacity (Ah)	314		
Cell Configuration	208S1P	224S1P	240S1P
System Nominal Voltage (V)	665.6	716.8	768
System Operating Voltage (V)[1]	582.4~759.2	627.2~817.6	672~876
System Energy (kWh)	208	224	240
System Usable Energy (kWh)[2]	187.2	201.6	216
Charge/Discharge Current (Recommended) (A)	100		
Charge/Discharge Current (Max) (A)	160		
Charge/ Discharge Power (Recommended) (kW)	66.5	71.6	76.8
Charge/ Discharge Power (Max) (kW)[3]	106.4	114.6	122.8
IP Rating Of Enclosure	IP55		
Dimension (W/D/H，mm)	1490*1110*2305（no contain inverter and lifting hole positions）		
Weight Approximate(kg)	2460	2580	2700
Humidity	0~95%（non-condensing）		
Altitude(m)	⩽ 2000		
Mounting Method	Outdoor		
Cooling Method	Smart fan cooling		
Communication	CAN/RS485		
Anticorrosion Grade	C4-H		
Air Conditioner Power	Cooling：3kW Heating：2.5kW		
Operating Temperature (°C)	Charge: 0~55, Discharge: -20~55		
Operating Temperature (Recommended) (°C)	15~30		
Storage temperature (°C)	-10~55		
Storage temperature (Recommended) (°C)	20~30		
Number Of Battery Packs Accommodated	13	14	15
Max. Parallel Units (pcs)	5		
Noise[4]	⩽ 65dB		
Fire Protection	Aerosol fire system, Muti-sensor/Water immersion sensor,Explosion-proof ventilatior,Vent valve		
Cycle Life	25 ± 2°C , 0.5C / 0.5C , EOL70% ⩾ 6000		
Warranty[5]	10 Years		
Certificates	IEC62619/ CE/ UN38.3/ MSDS		
Compatible inverter brands	Leapton, Solis and others		
40HQ Container Capacity (pcs)	9		

1. Please refer to the voltage range for battery module adaptation in the inverter technical specifications.
2. Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.
3. Max dis-/charge current and power derating will occur related to temperature and SOC.
4. Measured at a distance of 1.5 m and a height of 1 m above ground.
5. Please refer to the warranty document for details.

LEAPTON SOLAR

Headquarters: Leapton Energy Co., Ltd. TEL: 81-78-382-3182 WEB: www.leaptonenergy.jp
ADD: F6 Tosei Building 1-2-1 Aioicho Chuo-ku, Kobe-shi, Hyogo-ken 650-0025, Japan
Factory: Leapton Solar (Changshu) Co., Ltd. TEL: 86-512-88800068 WEB: www.leaptonpv.com
ADD: No.9 Sunshine Avenue, Changshu, Suzhou city, Jiangsu province, 215500, P. R. China E-MAIL: info@leaptonenergy.com

CH-F0P

Power Control Box

Operating Voltage	250~1000Vdc
Recommended Charge/Discharge Current	100A
Max.Charge/Discharge Current	160A
Operating Temperature Range	-20~55°C
Ingress Protection Rating	IP20
Dimensions (W/D/H)	470*740*229mm
Weight Approximate	24kg



CH-F16

16 kWh Battery Module

Battery Type	LFP($LiFePO_4$)
Nominal Voltage	51.2Vdc
Rated Capacity	314Ah
Rated Energy	16kWh
Max. Charge/Discharge Current	160A
Charge Temperature	0~55°C
Discharge Temperature	-20°C~55°C
Ingress Protection Rating	IP20
Dimensions (W/D/H)	475*778*229mm
Weight Approximate	120kg



Preview





LEAPTON SOLAR

Headquarters: Leapton Energy Co., Ltd. TEL: 81-78-382-3182 WEB: www.leaptonenergy.jp

ADD: F6 Tosei Building 1-2-1 Aioicho Chuo-ku, Kobe-shi, Hyogo-ken 650-0025, Japan

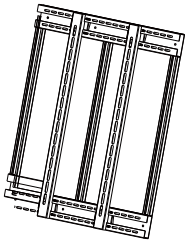
Factory: Leapton Solar (Changshu) Co., Ltd. TEL: 86-512-88800068 WEB: www.leaptonpv.com

ADD: No.9 Sunshine Avenue, Changshu, Suzhou city, Jiangsu province, 215500, P. R. China E-MAIL: info@leaptonenergy.com

C240-F Packing list(Include)

NO.	Project	Description
1		Parallel Connection terminal resistor*1
2		OT6-6*3
3		SC50-8*4
4		Eye bolts*4
5		Wi-Fi collector*1
6		Expansion bolt M10×100*4
7		CableTie*10
8		M8X16 Combination screws*4
9		User manual*1

Optional accessories,Sold separately(Exclude)

NO.	Project	Description
1		4G collector*1 (No 4G SIM card included)
2		Inverter fixed bracket *1

LEAPTON SOLAR
Headquarters: Leapton Energy Co., Ltd. TEL: 81-78-382-3182 WEB: www.leaptonenergy.jp
ADD: F6 Tosei Building 1-2-1 Aioicho Chuo-ku, Kobe-shi, Hyogo-ken 650-0025, Japan
Factory: Leapton Solar (Changshu) Co., Ltd. TEL: 86-512-88800068 WEB: www.leaptonpv.com
ADD: No.9 Sunshine Avenue, Changshu, Suzhou city, Jiangsu province, 215500, P. R. China E-MAIL: info@leaptonenergy.com