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

C128-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	C96-F	C112-F	C128-F
Cell Chemistry	LFP($LiFePO_4$)		
Module Energy (kWh)	16		
Module Nominal Voltage (V)	51.2		
Module Capacity (Ah)	314		
Cell Configuration	96S1P	112S1P	128S1P
System Nominal Voltage (V)	307.2	358.4	409.6
System Operating Voltage (V)[1]	268.8~350.4	313.6~408.8	358.4~467.2
System Energy (kWh)	96.46	112.53	128.61
System Usable Energy (kWh)[2]	86.81	101.28	115.75
Charge/Discharge Current (Recommended) (A)	100		
Charge/Discharge Current (Max) (A)	160		
Charge/ Discharge Power (Recommended) (kW)	30.7	35.8	40.9
Charge/ Discharge Power (Max) (kW)[3]	49.1	57.3	65.5
IP Rating Of Enclosure	IP55		
Dimension (W/D/H，mm)	1110±10*988±10*2305±10（no contain inverter and lifting hole positions）		
Weight Approximate(kg)	1295±50	1420±50	1545±50
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	6	7	8
Max. Parallel Units (pcs)	5		
Noise[4]	⩽ 65dB		
Fire Protection	Aerosol fire system, Muti-sensor/Water immersion sensor,Explosion-proof ventilation,Vent valve		
Cycle Life	25 ± 2°C , 80%DOD , EOL70% ⩾ 8000		
Warranty[5]	10 Years		
Certificates	IEC62619/ CE/ UN38.3/ MSDS		
Compatible inverter brands	Leapton, Solis and others		
40HQ Container Capacity (pcs)	16		

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

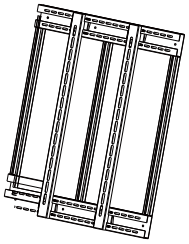
Factory: Leapton Solar (Changshu) Co., Ltd. TEL: 86-512-88800068 WEB: www.leaptonpv.com

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

C128-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