

DL5.0F

DL5.0F is designed for residential and small commercial applications, with up to 50 units in parallel and an energy range from 5.12 kWh to 256 kWh.It supports wall-mounted, rack-mounted, floor-mounted and is compatible with 19-inch standard racks. It supports 1C discharge rate. With high cycle times and a long lifespan, it ensures worry-free electricity consumption.

Flexible Expansion

Up to 50 units in parallel, 5.12kWh--256kWh capacity

1C Discharge

Simultaneously supplying power to multiple loads, no need to worry about power outages

Automatic Self-heating

-20°C to 55°C operating temperature (optional)

Easy Installation

Support wall-mounted, floor-mounted, and rack-mounted installations, compatible with 19-inch standard racks

Module-Free Design

Direct cell-to-pack integration eliminates modules for compact efficiency

Ultra Safe

Intelligent fire extinguishing system, detects and extinguishes fire in 5s(optional)

Model	DL5.0F
Battery Type	$LiFePO_4$
Nominal Battery Energy	5.12kWh
Usable Battery Energy	4.864kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8V~57.6V
Recommended Charge & Discharge C Rate	0.5C (50A)
Max. Charge C Rate	0.75C (75A)
Max. Discharge C Rate	1C (100A)
Peak Discharge Current (25°C)	110A, 15s
Recommended Charge & Discharge Power	2.56kW
Max. Charge Power	3.84kW
Max. Discharge Power	5.12kW
Depth of Discharge (DOD)	95%
Charge Temp. Range	0~55°C/-20~55°C (optional)
Discharge Temp. Range	-20°C~55°C
Net Weight	41kg
Dimension[W/D/H]	345/548/146mm
Protection Level	IP20
Communication	CAN/RS485
Cycle Life [1]	≥8000 Cycles
User Interface	WIFI+APP (optional)
Safety Protection	Built-in aerosol fire extinguisher (optional)
Installation [2]	Wall-mounted,Rack-mounted, Floor-mounted
Expansion	Up to 50 units in parallel
Warranty Period [3]	10 Years
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CE-RED
Compatible Inverters	SMA/Schneider/Victron Energy/Ingeteam/Solis/ GoodWe/Growatt/Solplanet/Luxpower/Deye/Apsystem etc.

[1] Test conditions: 0.2C Charging& Discharging. @25°C, 95% DOD, 70%EOL

[2] Simple bracket installation, supporting a maximum of 8 modules.

[3] Refer to Dyness Warranty Letter