

# EnerMax-C&I

## Distributed Energy Storage Cabinet



### PRODUCT DESCRIPTION

EnerMax-C&I distributed energy storage cabinet (CS50K50-L) adopts All-in-one design, which integrates the design of energy storage batteries, battery management system, PCS (optional STS), local monitoring system, fire-proof system, temperature control system, power distribution, access control and water immersion system into an independent outdoor cabinet. This product is mainly used in scenarios such as commercial buildings, shopping centers, communities, the end of power distribution networks, etc. The product is compatible with wall-mounted/19-inch-rack-mounted PCS and hybrid inverters. The standard unitized design makes the product able to be flexibly configured according to actual application scenarios.



### APPLICATION SCENARIOS

- Communities and commercial buildings
- Hospitals, shopping centers, public parking lots, etc.
- End of power distribution networks
- PV-ESS-Charger and micro grid, emergency power, or backup power supply etc.



### PRODUCT FEATURES

- All-in-one design
- Strong environmental adaptability with IP54 protection level
- Support for on-grid and parallel connection based on product modular design
- Fast deployment: easy to install, operate and maintain
- Improved space usage with small footprint
- Imbedded with 2-level fire-proof system for enhanced system safety
- Support local and remote monitoring



Model		CS50K50-L
DC Side	Battery Type	LFP
	Rated Voltage [V]	512
	Rated Energy [kWh]	51.2
	Battery Voltage Range [V]	464-568
	Max. Discharge Depth	90%
	Max. DC Current [A]	130
AC Side (On-Grid)	Rated Power [kW]	50
	Max. AC Power [kVA]	55
	Rated Voltage [V]	400
	Voltage Range	-20% to +15%
	Rated Frequency [Hz]	50/60
	Frequency Range [Hz]	Rated Frequency $\pm 3$
	Power Factor	> 0.99 (Rated Frequency)
	THDi	$\leq 3\%$
AC Side (Off-Grid)	Overload Capacity	$\leq 110\%$ (continuous)
	Rated Power [kW]	50
	Rated Voltage [V]	400
	Rated Frequency [Hz]	50/60
	Frequency Range [Hz]	Rated Frequency $\pm 0.05$
	THDU	$\leq 3\%$
Other	Overload Capacity	$\leq 105\%$ (continuous), 20% (1 min)
	Unbalance Overload Capacity	100%
	AC Connection Mode	3P+N
	Dimensions [W*D*H, mm]	1400*1500*1250
	Weight [kg]	~950
	Isolation	Non-isolated
	Cooling	Smart temperature control
	IP Grade	IP54
	Noise [dB]	< 65
	Fire-Proof	Aerosol
Communication	Ethernet, RS485, and CAN	
Working Temperature [°C]	-20 to +60	

Note: System space supports optional STS, The above information may subject to update without prior notice.