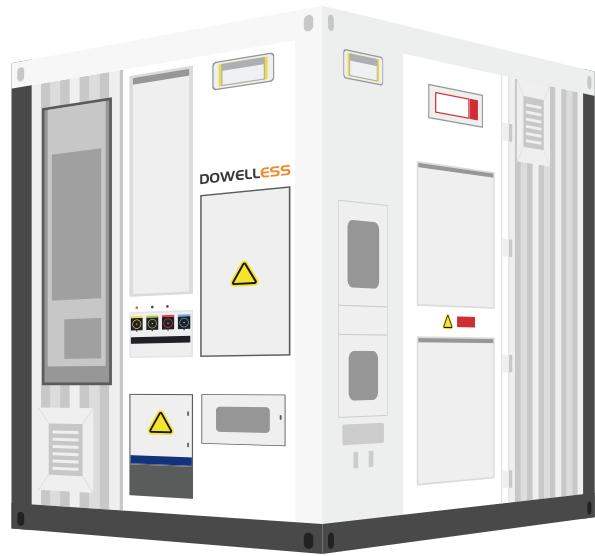


iCube M Series

Optimizing the Value & Efficiency of Energy Storage Systems



■ ■ ■ Main Features



Economic hybrid mode

Support access to diesel generators, reduce up to 80% cost of diesel.



Compact size

Standard size of 10/20-foot container, low transportation costs.



Light weight

Minimum 10 tons, with forklift lifting or hoisting for transportation.



Quiet and environmentally friendly

Operating noise≤60dB, far lower than diesel generator (75dB), 0 emissions.



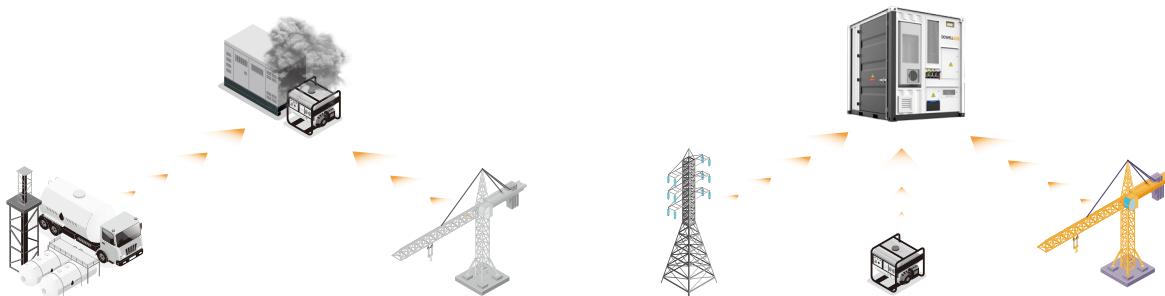
Multi applications

Such as event or construction site telecommunications in large cities, or rental applications.



Remote monitoring

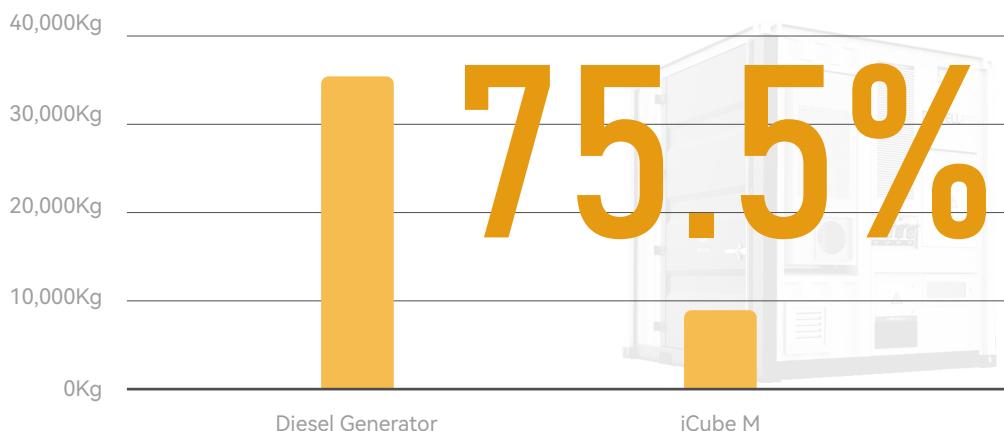
Real-time performance monitoring and notification ensure seamless operation.



Environmental benefit:

*Over the life cycle of each device, the environmental benefits in the hybrid mode are equivalent

 **Flexible Hybrid Mode**



MONTHLY GHG REDUCTION

It can reduce the start-up time of the diesel generator, improve the power generation efficiency, provide silent power during rest time, and save fuel consumption.

 **Hybrid power system**

Multiple output interfaces, quickly connect to diesel generators and loads. The iCube M Series can be used in parallel to increase power and capacity.

 **Environmental protection**

Reduce fuel consumption by up to 80% per day, reducing CO₂ emissions by more than 200 tons over its lifetime.

 **Multifunction**

The iCube M Series offer intelligent load management, helping generators achieve peak power, optimize performance, and extend service life by 15%. It reduces maintenance workload by 50%, leading to a 40% decrease in generator usage. Additionally, it excels in managing low load conditions.

Construction site load

Power (kw)

 Generator operation

 Charge

 iCube M Series operation

Maximum load

0

0-3h

3-6h

6-9h

9-12h

12-15h

15-18h

18-21h

21-24h

Typical application mode of construction site

 **Application scenarios**

Continuous demanding loads

electric engineering machinery

Grid services

Factory power backup, peak and valley arbitrage

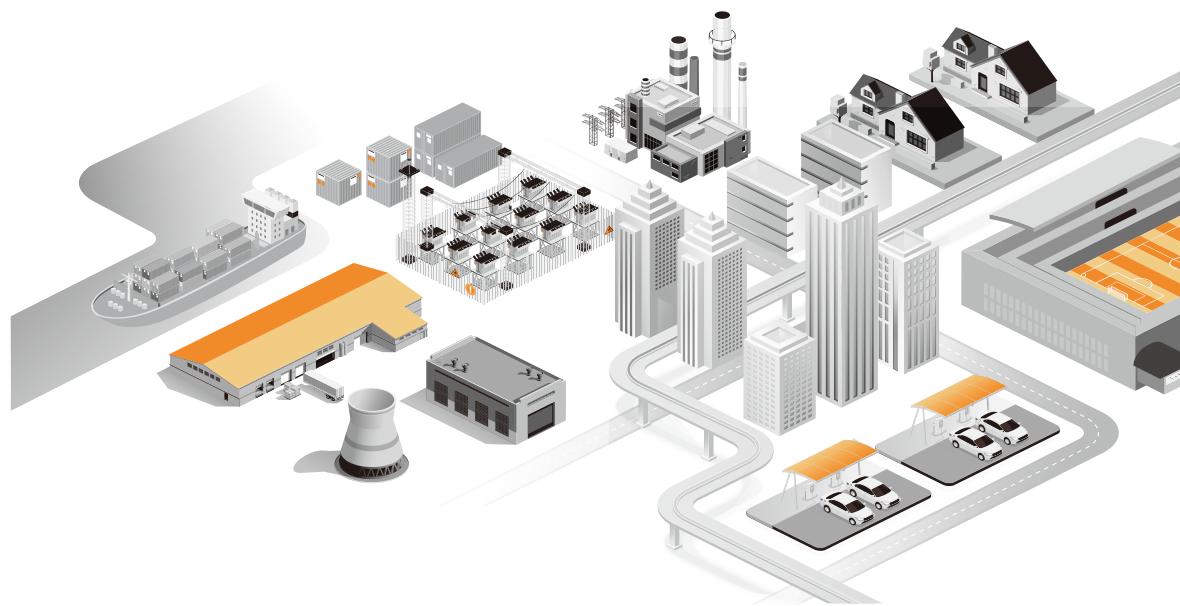
Port shore power

Construction site

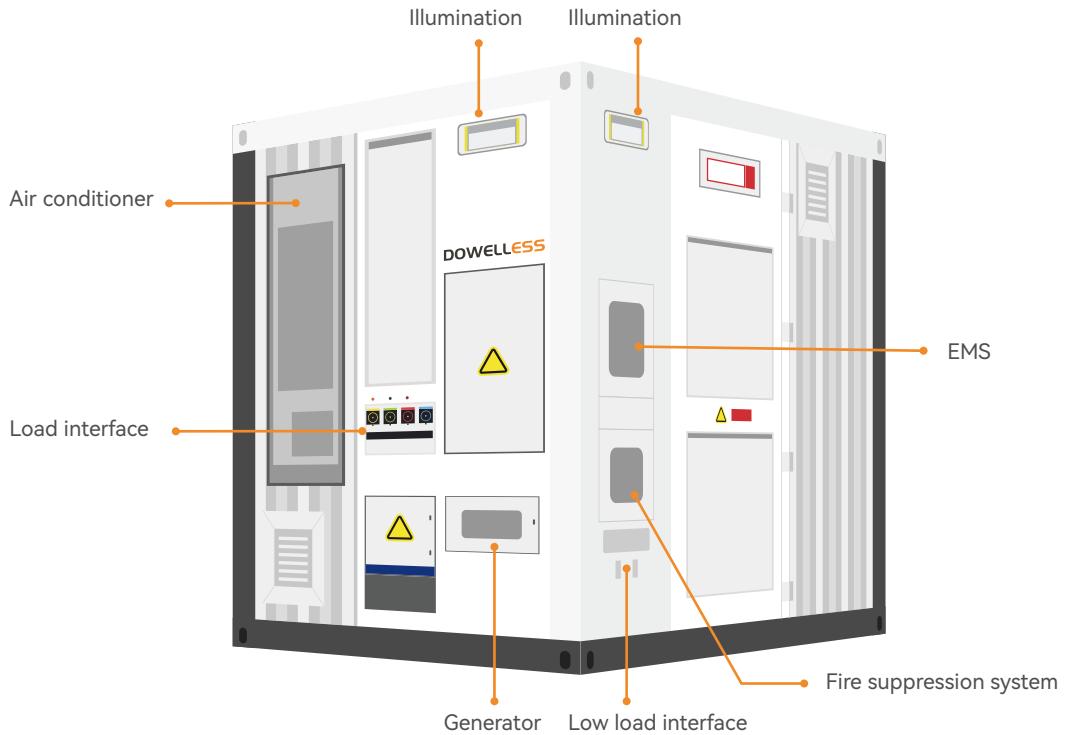
Peak shaving of electric vehicle charging stations

Noise sensitive locations

.....



■ Product Design



■ Remote monitoring



Model	iCube M 250-560
DC Side	
Capacity of Cell	280Ah
Battery cycles	6000
Battery Voltage range	556V-672Vdc
Maximum input	420A
Battery capacity	560kWh
Output	
Rated output power	250kW
Maximum output power	275kW
Output Type	3P4L ground (3W+N+PE)
Rated Voltage	400Vac
Rated Output current	361A
Maximum output current	397A
Isolation method	Transformers
Grid-connected operation	
Allowable range	400Vac (-20%~+15%)
Grid frequency	50±5HZ/60±5HZ
THDI	<3%
Power factor	-0.99(lag) ~ +0.99(advance)
Off-grid operation	
Rated Voltage	400V
Voltage range	400VAC±10%
Rated Output Frequency	50Hz/60Hz
With unbalanced load	100%
THDU	<3%(pure resistive load)
Overload capability	110% overload (10min) 120% overload (1min)
Other parameters	
Designed service life	10 years or 5000 cycles (80%)
Cooling method	Air-cooling+intelligent air conditioner
Relative humidity	<90%RH, non-condensing

Model	iCube M 250-560
Protection Grade	IP54
Gird-connection and off automatic switch function	Equipped
Duration for switching of off-grid	<10ms
Communication Interface	RS485/4G/Ethernet
Cloud platform terminal	Support
Firefighting system	Standard Configuration
Ventilation and heat dissipation system	Standard Configuration
Light system	Standard Configuration
Environment Parameters	
Operation Ambient Temperature	-15°C ~ +50°C
Limit Operating Temperature	-20°C ~ +55°C
Optimal Operating Temperature	20°C ~ 30°C