



OUTDOOR CABINET ENERGY STORAGE SYSTEM

# TITAN

 [www.magicpower.co](http://www.magicpower.co)





**KEEP YOUR LIGHTS ON.**

## ■ What is Titan?

Titan is a commercial and industrial energy storage solution integrated with EMS, ensuring a worry-free power supply for your place and business.

# TITAN



### **Titan is your all-in-one Commercial and Industrial(C&I) energy storage solution**

With an integrated EMS, it can efficiently accept grid dispatching. The outdoor integrated PV energy storage system supports various smart loads, reducing grid demand and improving green energy independence.



### **3 Levels Protection**

Cell-level monitoring with pack-level protection ensure the safety of the system. Certified to meet strict European standards, and equipped with a reliable LFP battery and internal fire suppression.



### **Titan is Suitable for various complex scenarios**

Titan can be widely utilized in industrial parks, small businesses, residential buildings, apartments, islands, and more. It delivers green energy to every spot on your business map. Making every watt of your business greener.



### Strategy Automation

Titan generates and applies optimal energy strategies based on real-time prices and forecasts, maximizing the use of green energy and reducing electricity costs.



### Automated Price Tracking

Titan tracks real-time electricity prices across multiple markets, helping businesses seize the best rates and optimize energy trading.



### Integrated EMS, accepts grid dispatching

Integrated EMS (Energy Management System), and can accept dispatching from the power grid companies.



### 150% PV over-allocation

Supports 150% PV over-allocation, reducing grid demand and enhancing green energy independence.



### On-grid and off-grid switching

Supports on-grid and off-grid switching



### Certifications

EN 61000 (Eur EMC), IEC 62109 (Eur Safety), IEC 62477-1 (Safety); EN 50549-1 (Europe), VDE AR-N4105 (Germany)



### Inverter three-phase unbalance

Inverter supports three-phase unbalanced load



### Cybersecurity

Titan meets European regulations and encrypts data using proprietary protocols to protect customers' data security



### Easy installation

Easy to install and debug



### Internal fire suppression and monitoring

Equipped with internal fire suppression and monitoring at pack and cluster levels for improved safety of both equipment and users



### Control via app and backend

Supports control via both the app and backend, enabling real-time monitoring and management of energy usage any-time, anywhere.

### ESS for Backup

Continuous and uninterrupted power supply

### Peak-valley Arbitrage

Realization of peak-valley price difference arbitrage

### Energy Conservation and Environmental Protection

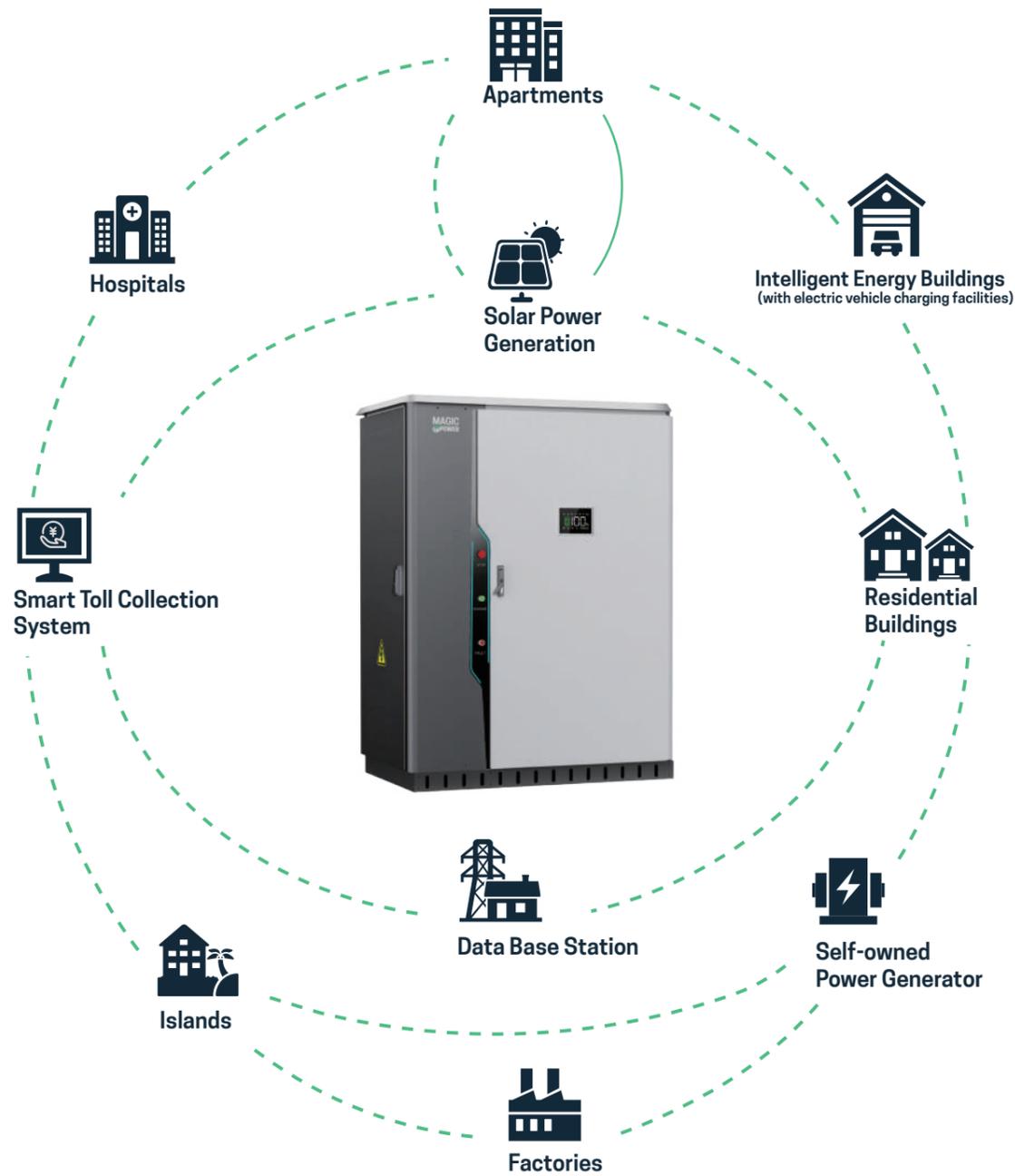
Green and efficient energy with zero carbon emissions

### Photovoltaic Integration

Improvement of photovoltaic integration efficiency

### Electricity Quota Allocation

Reduction of capacity quotas, cost reduction



## Inverter Parameters MQK-25k~50k



Model	MQK- 25	MQK- 30	MQK- 40	MQK- 50
<b>DC Input</b>				
Max. PV Array Power [Wp]@STC	37500	45000	60000	75000
Max. DC Voltage [V]	1000			
MPPT Voltage Range [V]	200~850			
Rated DC Voltage [V]	620			
Start Voltage [V]	135			
Max. DC Input Current [A]	4*30			
Max. DC Short Circuit Current [A]	4*40			
Number of MPPT	4			
Number of Strings per MPPT	2			
<b>Battery Parameters</b>				
Battery Type	LiFePO4			
Battery Voltage Range [V]	135~750			
Max. Charging/Discharging Current [A]	100-100			
<b>AC Parameters [On-grid]</b>				
Rated AC Power [W]	25000	30000	40000	50000
Maximum output apparent power [VA]	27500	33000	44000	55000
Maximum input apparent power [VA]	30000	36000	48000	60000
Maximum battery charging power [W]	25000	30000	40000	50000
Rated Voltage [V]	3L/N/PE; 220/380V;230/400V;240/415V			
On-grid Frequency [Hz]	50/60			
Maximum current output [A]	42	50	66	83
Power Factor	0.8 leading~0.8 lagging			
Total Harmonic Distortion [THDi]	<3%@rated power			
<b>AC Parameters [Back-up]</b>				
Rated AC Power [W]	25000	30000	40000	50000
Maximum output apparent power [VA]	27500	33000	44000	55000
Maximum current output [A]	42	50	66	83
UPS switching time	<20ms			
Rated output voltage [V]	3L/N/PE; 220/380V;230/400V;240/415V			
Rated Ac Frequency [Hz]	50/60			
Output THDv (@ Liner Load)	<3%			
<b>AC Parameters [Generator]</b>				
Maximum input apparent power[VA]	30000	36000	48000	60000
Maximum battery charging power[W]	25000	30000	40000	50000
Rated output voltage[V]	3L/N/PE; 220/380V;230/400V;240/415V			
Rated Ac Frequency [Hz]	50/60			
<b>Efficiency</b>				
Maximum PV conversion efficiency	98.8%			
Euro Efficiency	98.3%			
Protection	Protection			
Battery input reverse connection protection	Integrated			
Insulation resistance protection	Integrated			
Surge protection	Integrated			
Over-temperature protection	Integrated			
Anti-islanding Protection	Integrated			
Residual current protection	Integrated			
AC over-voltage protection	Integrated			
Overload protection	Integrated			
AC short-circuit protection	Integrated			

## Inverter Parameters MQK-25k~50k



Model	MQK- 25	MQK- 30	MQK- 40	MQK- 50
<b>General Parameters</b>				
Over voltage category	PV: II ; Main: III			
Dimensions (mm)	800×620×300			
Weight (KG)	72.0			
Protection degree	IP65			
Standby self-consumption (W)	<15			
Topology	Transformerless			
Operating Temperature Range (°C)	-30~60			
Relative Humidity (%)	0~100			
Operating Altitude (m)	3000 (>3000m derating)			
Cooling	Smart fan			
Noise Level (dB)	<50			
Display	OLED & LED			
Communication	CAN, RS485, WiFi/LAN (Optional)			

## Battery Parameters 63.2kWh~105.4kWh

Model	CB2-63.2-HV5	CB2-84.3-HV5	CB2-105.4-HV5
Rated Energy [kWh]	63.2	84.3	105.4
Usable Energy [kWh]	56.9	75.9	94.9
Rated Capacity [Ah]	206	206	206
No. of Modules	6	8	10
Nominal Voltage [V]	307.2	409.6	512
Voltage Range [V]	240~350.4	320~467.2	400~584
Charge/Discharge Current [A]	100	100	100
Rated Power [kW]	30	40	50
Weight [kg]	1030	1170	1310
Dimension [mm]	960*1500*2000 (1185*1500*2000-include air condition)		
Communication	CAN		
Operating Temperature Range [°C]	-30~50		
Cooling Method	Air Conditioner		
Relative Humidity	5~95% (non-condensing)		
Altitude [m]	2000		
Ingress Protection	IP54		
Mounting	Ground-Mounted		
<b>Battery Module</b>			
Rated Energy [kWh]	10.547		
Battery Module Serial Cell Quantity (pcs)	16		
Weight [kg]	71		
Dimension [mm]	607*400*246		
Applicable Standard	IEC62619-2017, UN38.3, IEC61000-6-2/4, IEC62477		

## ■ About MagicPower

MagicPower specializes in the research, integration, sales, and service of new energy systems centered around energy storage devices. Our expert team spans fields such as power equipment, power grids, and artificial intelligence, covering the entire ecosystem of the energy storage industry. We are committed to delivering world-leading, one-stop clean energy solutions. Currently, our services extend across Europe, South Africa, Southeast Asia, and other countries and regions.

Our new energy solutions rely on self-developed energy storage equipment and control systems to coordinate wind, solar, and diesel power sources. These solutions cater to various user-side and renewable energy generation scenarios, with capacities ranging from 1 kWh to 2000 kWh. Currently, our clients include overseas solar power plants, photovoltaic installers, small and medium-sized commercial and industrial enterprises, new energy vehicle solar charging stations, residential projects, and individual users.

**Powering Every Need**

**From 1 to 2000 kWh**



## ■ MagicPower's Main Business

### Residential Energy Storage Systems

We provide comprehensive whole-house energy management solutions, featuring products like hybrid inverters, stackable battery packs, and all-in-one energy solar energy storage. With energy storage as the core, our solutions adapt to the critical electricity demands of entire households.

### C&I Energy Storage Integration and Services

We specialize in integrating energy storage on both the power supply and grid sides, widely applied in scenarios such as new energy grid integration, frequency regulation, and demand-side response.

We offer C&I energy storage solutions, including container energy storage systems and outdoor energy storage systems. Simultaneously integrating solar and storage charging as a unified solution, constructing a reliable energy infrastructure.



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