

Energy Storage System Selection Guide

ENERGY STORAGE SYSTEM SELECTION GUIDE

2026

Integrated Energy Storage Products & System Solutions



IMAXPWR (Shenzhen) Power Tech Co., Ltd.

IMAXPWR (SHENZHEN) POWER TECH CO., LTD.

National High-Tech Enterprise and Guangdong Contract-Honoring Enterprise, with 20+ years in power electronics. A source equipment manufacturer and one-stop energy storage solution provider covering PCS, DC/DC, EMS and cabinet integration.

National High-Tech Enterprise

Guangdong Contract-Honoring Enterprise

One-Stop ESS Provider

Source Manufacturer

2015

Founded

20+

Years Experience

999+

Projects Delivered

100%

Client Recommendation

Core Capabilities

PCS

DC/DC Module

EMS

System Integration

Mission: To deliver Integrated Energy Storage Products & System Solutions

Vision: To become the most trusted green energy brand for customers worldwide

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Contents

CONTENTS

01

HV-DC High Voltage Battery

P.03–08

High Voltage Battery

25~261kWh · 6 models

02

HV-AIO All-in-One ESS

P.09–15

All-in-One ESS

50~250kW · 7 models

03

MSP PV+ESS Hybrid Cabinet

P.16–20

PV+ESS Hybrid Cabinet

250~750kVA · 5 models

04

Panshi Transformer ESS

P.21–22

Panshi Transformer ESS

105~250kW · 241~522kWh

IMAX HV-DC Series

25kWh ~ 51kWh

High Voltage Battery Storage

LiFePO4 battery cells with modular rack/cabinet design. Supports multi-unit parallel connection and flexible expansion. Built-in overcharge, over-discharge, overcurrent, short-circuit and over-temperature protection. Ideal for C&I energy storage, peak shaving and backup power.



Key Features

Highly Integrated
Highly integrated

Mature & Reliable
Mature & reliable

Flexible Expansion
Flexible expansion

Easy Operation
Easy operation

Ultimate Safety
Ultimate security

Multi-Parallel
Parallel connection

Intelligent Control
Intelligent control

Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	HV DC 256V 100AH	HV DC 307.2V 100AH	HV DC 409.6V 100AH	HV DC 512V 100AH
Case	Rack-mounted			
Cell Type	LiFePO4			
Module Config	1P16S			
Modules	5	6	8	10
Nominal Voltage	256Vdc	307.2Vdc	409.6Vdc	512Vdc
Cell Capacity	100Ah			
Capacity	25kWh	30kWh	40kWh	51kWh
Voltage Range	232~288Vdc	278.4~345.6Vdc	371.2~460.8Vdc	464~576Vdc
Charge Current	50A			
Discharge Current	50A			
Protection	Overcharge/Over-discharge/Overcurrent/Short-circuit/Over-temp			
Cooling	Natural cooling			
Communication	CAN/RS485			
Storage Temp.	0°C~30°C			
Storage Duration	6 months at 25°C			
Safety	UN38.3, MSDS			
IP Rating	IP20			
Operating Temp.	-10°C~+50°C			
Humidity	0~95% (no condensation)			
Altitude	<4000m (derating above 2000m)			
Module Size	650×440×150 mm			
Net Weight	47kg			
Gross Weight	50kg			

IMAX HV-DC Series

51kWh ~ 102kWh

High Voltage Battery Storage

LiFePO4 battery cells with modular rack/cabinet design. Supports multi-unit parallel connection and flexible expansion. Built-in overcharge, over-discharge, overcurrent, short-circuit and over-temperature protection. Ideal for C&I energy storage, peak shaving and backup power.



Key Features

**Highly Integrated**
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Ultimate security

**Multi-Parallel**
Parallel connection

**Intelligent Control**
Intelligent control

**Cost-Effective**
Cost-effective

**Long Lifespan**
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	HV DC 256V 200AH	HV DC 307.2V 200AH	HV DC 409.6V 200AH	HV DC 512V 200AH
Case	Rack-mounted			
Cell Type	LiFePO ₄			
Module Config	1P16S			
Modules	5	6	8	10
Nominal Voltage	256Vdc	307.2Vdc	409.6Vdc	512Vdc
Cell Capacity	200Ah			
Capacity	51kWh	61kWh	81kWh	102kWh
Voltage Range	232~288Vdc	278.4~345.6Vdc	371.2~460.8Vdc	464~576Vdc
Charge Current	100A			
Discharge Current	100A			
Protection	Overcharge/Over-discharge/Overcurrent/Short-circuit/Over-temp			
Cooling	Natural cooling			
Communication	CAN/RS485			
Storage Temp.	0°C~30°C			
Storage Duration	6 months at 25°C			
Safety	UN38.3, MSDS			
IP Rating	IP20			
Operating Temp.	-10°C~+50°C			
Humidity	0~95% (no condensation)			
Altitude	<4000m (derating above 2000m)			
Module Size	660×440×230 mm			
Package Size	740×500×400 mm			
Net Weight	90kg			
Gross Weight	105kg			

IMAX HV-DC Series

80kWh ~ 160kWh

High Voltage Battery Storage

LiFePO4 battery cells with modular rack/cabinet design. Supports multi-unit parallel connection and flexible expansion. Built-in overcharge, over-discharge, overcurrent, short-circuit and over-temperature protection. Ideal for C&I energy storage, peak shaving and backup power.



Key Features

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Multi-Parallel
Parallel connection

Intelligent Control
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Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	HV DC 256V 314AH	HV DC 307.2V 314AH	HV DC 409.6V 314AH	HV DC 512V 314AH
Case	Outdoor cabinet			
Cell Type	LiFePO ₄			
Module Config	1P16S			
Modules	5	6	8	10
Nominal Voltage	256Vdc	307.2Vdc	409.6Vdc	512Vdc
Cell Capacity	314Ah			
Capacity	80kWh	96kWh	128kWh	160kWh
Voltage Range	232~288Vdc	278.4~345.6Vdc	371.2~460.8Vdc	464~576Vdc
Charge Current	150A			
Discharge Current	150A			
Protection	Overcharge/Over-discharge/Overcurrent/Short-circuit/Over-temp			
Cooling	Liquid/air cooling (optional)			
Communication	CAN/RS485			
Storage Temp.	0°C~30°C			
Storage Duration	6 months at 25°C			
Safety	UN38.3, MSDS			
IP Rating	IP54			
Operating Temp.	-10°C~+50°C			
Humidity	0~95% (no condensation)			
Altitude	<4000m (derating above 2000m)			

IMAX HV-DC Series

100kWh ~ 200kWh

High Voltage Battery Storage

LiFePO4 battery cells with modular rack/cabinet design. Supports multi-unit parallel connection and flexible expansion. Built-in overcharge, over-discharge, overcurrent, short-circuit and over-temperature protection. Ideal for C&I energy storage, peak shaving and backup power.



Key Features

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Ultimate Safety
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Multi-Parallel
Parallel connection

Intelligent Control
Intelligent control

Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	HV DC 320V 314AH	HV DC 448V 314AH	HV DC 576V 314AH	HV DC 640V 314AH
Case	Outdoor cabinet			
Cell Type	LiFePO ₄			
Module Config	1P20S			
Modules	5	7	9	10
Nominal Voltage	320Vdc	448Vdc	576Vdc	640Vdc
Cell Capacity	314Ah			
Capacity	100kWh	140kWh	180kWh	200kWh
Voltage Range	290~360Vdc	406~504Vdc	522~648Vdc	580~720Vdc
Charge Current	150A			
Discharge Current	150A			
Protection	Overcharge/Over-discharge/Overcurrent/Short-circuit/Over-temp			
Cooling	Liquid/air cooling (optional)			
Communication	CAN/RS485			
Storage Temp.	0°C~30°C			
Storage Duration	6 months at 25°C			
Safety	UN38.3, MSDS			
IP Rating	IP54			
Operating Temp.	-10°C~+50°C			
Humidity	0~95% (no condensation)			
Altitude	<4000m (derating above 2000m)			

IMAX HV-DC Series

120kWh ~ 241kWh

High Voltage Battery Storage

LiFePO4 battery cells with modular rack/cabinet design. Supports multi-unit parallel connection and flexible expansion. Built-in overcharge, over-discharge, overcurrent, short-circuit and over-temperature protection. Ideal for C&I energy storage, peak shaving and backup power.



Key Features

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Flexible Expansion
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Easy Operation
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Ultimate Safety
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Multi-Parallel
Parallel connection

Intelligent Control
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Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	HV DC 384V 314AH	HV DC 537.6V 314AH	HV DC 691.2V 314AH	HV DC 768V 314AH
Case	Outdoor cabinet			
Cell Type	LiFePO ₄			
Module Config	1P24S			
Modules	5	7	9	10
Nominal Voltage	384Vdc	537.6Vdc	691.2Vdc	768Vdc
Cell Capacity	314Ah			
Capacity	120kWh	168kWh	217kWh	241kWh
Voltage Range	348~432Vdc	487.2~604.8Vdc	626~777.6Vdc	696~864Vdc
Charge Current	150A			
Discharge Current	150A			
Protection	Overcharge/Over-discharge/Overcurrent/Short-circuit/Over-temp			
Cooling	Liquid/air cooling (optional)			
Communication	CAN/RS485			
Storage Temp.	0°C~30°C			
Storage Duration	6 months at 25°C			
Safety	UN38.3, MSDS			
IP Rating	IP54			
Operating Temp.	-10°C~+50°C			
Humidity	0~95% (no condensation)			
Altitude	<4000m (derating above 2000m)			

IMAX HV-DC Series

130kWh ~ 261kWh

High Voltage Battery Storage

LiFePO4 battery cells with modular rack/cabinet design. Supports multi-unit parallel connection and flexible expansion. Built-in overcharge, over-discharge, overcurrent, short-circuit and over-temperature protection. Ideal for C&I energy storage, peak shaving and backup power.



Key Features

Highly Integrated
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Mature & Reliable
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Flexible Expansion
Flexible expansion

Easy Operation
Easy operation

Ultimate Safety
Ultimate security

Multi-Parallel
Parallel connection

Intelligent Control
Intelligent control

Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	HV DC 416V 314AH	HV DC 499.2V 314AH	HV DC 665.6V 314AH	HV DC 832V 314AH
Case	Outdoor cabinet			
Cell Type	LiFePO ₄			
Module Config	1P26S			
Modules	5	6	8	10
Nominal Voltage	416Vdc	499.2Vdc	665.6Vdc	832Vdc
Cell Capacity	314Ah			
Capacity	130kWh	156kWh	208kWh	261kWh
Voltage Range	377~468Vdc	452.4~561.6Vdc	603.2~748.8Vdc	754~936Vdc
Charge Current	150A			
Discharge Current	150A			
Protection	Overcharge/Over-discharge/Overcurrent/Short-circuit/Over-temp			
Cooling	Liquid cooling			
Communication	CAN/RS485			
Storage Temp.	0°C~30°C			
Storage Duration	6 months at 25°C			
Safety	UN38.3, MSDS			
IP Rating	IP20			
Operating Temp.	-10°C~+50°C			
Humidity	0~95% (no condensation)			
Altitude	<4000m (derating above 2000m)			

IMAX HV-AIO Series

15kW + 30/40kWh

All-in-One Energy Storage

Integrated PCS, MPPT and battery system in one cabinet. Seamless grid/off-grid switching with PV input. Modular design for flexible expansion. Ideal for C&I storage, solar-plus-storage and backup power.



Key Features

**Highly Integrated**
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**Flexible Expansion**
Flexible expansion

**Easy Operation**
Easy operation

**Ultimate Safety**
Ultimate security

**Multi-Parallel**
Parallel connection

**Intelligent Control**
Intelligent control

**Cost-Effective**
Cost-effective

**Long Lifespan**
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	15kW+30kWh	15kW+40kWh
PV Parameter		
Max. Power	15kW+15kW	
Max. PV Voltage	850V	
PV Startup Voltage	250V	
MPPT Range	200V-800V	
Max. PV Current	25A+25A	
AC Side		
Rated Power	15kVA	
Rated Current	22A	
Rated Voltage	400V/230V	
Voltage Range	-20%~15%	
Frequency Range	50Hz(47~52)/60Hz(57~62)	
Current THD	<3%	
Power Factor	-1~1	
Battery		
Battery Type	LiFePO ₄	LiFePO ₄
Modules	6	8
Config	1P96S	1P128S
Capacity	100Ah	100Ah
Nominal Voltage	307.2Vdc	409.6Vdc
Voltage Range	278.4~345.6Vdc	371.2~460.8Vdc
Energy	30kWh	40kWh
System		
Grid/Off-Grid Switch Switch	<10ms	
Max. Efficiency	98.2%	
Power Consumption	Standby<20W / No load<160W	
IP Rating	IP20/IP54 (Optional)	
Operating Temp.	-10°C~+50°C	
Humidity	5~95%	
Cooling	Natural/air cooling	
Altitude	<4000m (derating above 2000m)	

IMAX HV-AIO Series

25kW + 51/61kWh

All-in-One Energy Storage

Integrated PCS, MPPT and battery system in one cabinet. Seamless grid/off-grid switching with PV input. Modular design for flexible expansion. Ideal for C&I storage, solar-plus-storage and backup power.



Key Features

**Highly Integrated**
Highly integrated

**Mature & Reliable**
Mature & reliable

**Flexible Expansion**
Flexible expansion

**Easy Operation**
Easy operation

**Ultimate Safety**
Ultimate security

**Multi-Parallel**
Parallel connection

**Intelligent Control**
Intelligent control

**Cost-Effective**
Cost-effective

**Long Lifespan**
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	25kW+51kWh	25kW+61kWh
PV Parameter		
Max. Power	15kW+15kW	
Max. PV Voltage	850V	
PV Startup Voltage	250V	
MPPT Range	200V-800V	
Max. PV Current	25A+25A	
AC Side		
Rated Power	25kVA	
Rated Current	36.2A	
Rated Voltage	400V/230V	
Voltage Range	-20%~15%	
Frequency Range	50Hz(47~52)/60Hz(57~62)	
Current THD	<3%	
Power Factor	-1~1	
Battery		
Battery Type	LiFePO ₄	LiFePO ₄
Modules	10	6
Config	1P160S	1P96S
Capacity	100Ah	200Ah
Nominal Voltage	512Vdc	307.2Vdc
Voltage Range	464~576Vdc	278.4~345.6Vdc
Energy	51kWh	61kWh
System		
Grid/Off-Grid Switch Switch	<10ms	
Max. Efficiency	98.2%	
Power Consumption	Standby<20W / No load<160W	
IP Rating	IP20/IP54 (Optional)	
Operating Temp.	-10°C~+50°C	
Humidity	5~95%	
Cooling	Natural/air cooling	
Altitude	<4000m (derating above 2000m)	

IMAX HV-AIO Series

30kW + 61/81kWh

All-in-One Energy Storage

Integrated PCS, MPPT and battery system in one cabinet. Seamless grid/off-grid switching with PV input. Modular design for flexible expansion. Ideal for C&I storage, solar-plus-storage and backup power.



Key Features

Highly Integrated
Highly integrated

Mature & Reliable
Mature & reliable

Flexible Expansion
Flexible expansion

Easy Operation
Easy operation

Ultimate Safety
Ultimate security

Multi-Parallel
Parallel connection

Intelligent Control
Intelligent control

Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	30kW+61kWh	30kW+81kWh
PV Parameter		
Max. Power	15kW+15kW	
Max. PV Voltage	850V	
PV Startup Voltage	250V	
MPPT Range	200V-800V	
Max. PV Current	32A+32A	
AC Side		
Rated Power	30kVA	
Rated Current	43.5A	
Rated Voltage	400V/230V	
Voltage Range	-20%~15%	
Frequency Range	50Hz(47~52)/60Hz(57~62)	
Current THD	<3%	
Power Factor	-1~1	
Battery		
Battery Type	LiFePO ₄	LiFePO ₄
Modules	6	8
Config	1P96S	1P128S
Capacity	200Ah	200Ah
Nominal Voltage	307.2Vdc	409.6Vdc
Voltage Range	278.4~345.6Vdc	371.2~460.8Vdc
Energy	61kWh	81kWh
System		
Grid/Off-Grid Switch Switch	<10ms	
Max. Efficiency	98.2%	
Power Consumption	Standby<20W / No load<160W	
IP Rating	IP20/IP54 (Optional)	
Operating Temp.	-10°C~+50°C	
Humidity	5~95%	
Cooling	Liquid/air cooling	
Altitude	<4000m (derating above 2000m)	

IMAX HV-AIO Series

50kW + 96/128kWh

All-in-One Energy Storage

Integrated PCS, MPPT and battery system in one cabinet. Seamless grid/off-grid switching with PV input. Modular design for flexible expansion. Ideal for C&I storage, solar-plus-storage and backup power.



Key Features

Highly Integrated
Highly integrated

Mature & Reliable
Mature & reliable

Flexible Expansion
Flexible expansion

Easy Operation
Easy operation

Ultimate Safety
Ultimate security

Multi-Parallel
Parallel connection

Intelligent Control
Intelligent control

Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	50kW+96kWh	50kW+128kWh
PV Parameter		
Max. Power	38.4kW+38.4kW	
Max. PV Voltage	850V	
PV Startup Voltage	250V	
MPPT Range	200V-800V	
Max. PV Current	64A+64A	
AC Side		
Rated Power	50kVA	
Rated Current	72.5A	
Rated Voltage	400V/230V	
Voltage Range	-20%~15%	
Frequency Range	50Hz(47~52)/60Hz(57~62)	
Current THD	<3%	
Power Factor	-1~1	
Battery		
Battery Type	LiFePO ₄	LiFePO ₄
Modules	6	8
Config	1P96S	1P128S
Capacity	314Ah	314Ah
Nominal Voltage	307.2Vdc	409.6Vdc
Voltage Range	278.4~345.6Vdc	371.2~460.8Vdc
Energy	96kWh	128kWh
System		
Grid/Off-Grid Switch Switch	<10ms	
Max. Efficiency	98.2%	
Power Consumption	Standby<20W / No load<160W	
IP Rating	IP54	
Operating Temp.	-10°C~+50°C	
Humidity	5~95%	
Cooling	Air cooling	
Altitude	<4000m (derating above 2000m)	

IMAX HV-AIO Series

60kW + 128/160kWh

All-in-One Energy Storage

Integrated PCS, MPPT and battery system in one cabinet. Seamless grid/off-grid switching with PV input. Modular design for flexible expansion. Ideal for C&I storage, solar-plus-storage and backup power.



Key Features

Highly Integrated
Highly integrated

Mature & Reliable
Mature & reliable

Flexible Expansion
Flexible expansion

Easy Operation
Easy operation

Ultimate Safety
Ultimate security

Multi-Parallel
Parallel connection

Intelligent Control
Intelligent control

Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	60kW+128kWh	60kW+160kWh
PV Parameter		
Max. Power	38.4kW+38.4kW	
Max. PV Voltage	850V	
PV Startup Voltage	250V	
MPPT Range	200V-800V	
Max. PV Current	64A+64A	
AC Side		
Rated Power	60kVA	
Rated Current	96A	
Rated Voltage	400V/230V	
Voltage Range	-20%~15%	
Frequency Range	50Hz(47~52)/60Hz(57~62)	
Current THD	<3%	
Power Factor	-1~1	
Battery		
Battery Type	LiFePO ₄	LiFePO ₄
Modules	8	10
Config	1P128S	1P160S
Capacity	314Ah	314Ah
Nominal Voltage	409.6Vdc	640Vdc
Voltage Range	371.2~424.8Vdc	464~576Vdc
Energy	128kWh	160kWh
System		
Grid/Off-Grid Switch Switch	<10ms	
Max. Efficiency	98.2%	
Power Consumption	Standby<20W / No load<160W	
IP Rating	IP54	
Operating Temp.	-10°C~+50°C	
Humidity	5~95%	
Cooling	Air cooling	
Altitude	<4000m (derating above 2000m)	

IMAX HV-AIO Series

100kW + 200/217kWh

All-in-One Energy Storage

Integrated PCS, MPPT and battery system in one cabinet. Seamless grid/off-grid switching with PV input. Modular design for flexible expansion. Ideal for C&I storage, solar-plus-storage and backup power.



Key Features

Highly Integrated
Highly integrated

Mature & Reliable
Mature & reliable

Flexible Expansion
Flexible expansion

Easy Operation
Easy operation

Ultimate Safety
Ultimate security

Multi-Parallel
Parallel connection

Intelligent Control
Intelligent control

Cost-Effective
Cost-effective

Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	100kW+200kWh	100kW+217kWh
PV Parameter		
Max. Power	4x38.4kW	
Max. PV Voltage	850V	
PV Startup Voltage	250V	
MPPT Range	200V-800V	
Max. PV Current	4x64A	
AC Side		
Rated Power	100kVA	
Rated Current	144.8A	
Rated Voltage	400V/230V	
Voltage Range	-20%~15%	
Frequency Range	50Hz(47~52)/60Hz(57~62)	
Current THD	<3%	
Power Factor	-1~1	
Battery		
Battery Type	LiFePO ₄	LiFePO ₄
Modules	10	9
Config	1P200S	1P216S
Capacity	314Ah	314Ah
Nominal Voltage	640Vdc	691.2Vdc
Voltage Range	580~720Vdc	626~777.6Vdc
Energy	200kWh	217kWh
System		
Grid/Off-Grid Switch Switch	<10ms	
Max. Efficiency	98.2%	
Power Consumption	Standby<20W / No load<160W	
IP Rating	IP54	
Operating Temp.	-10°C~+50°C	
Humidity	5~95%	
Cooling	Liquid/air cooling	
Altitude	<4000m (derating above 2000m)	

IMAX HV-AIO Series

125kW + 241/261kWh

All-in-One Energy Storage

Integrated PCS, MPPT and battery system in one cabinet. Seamless grid/off-grid switching with PV input. Modular design for flexible expansion. Ideal for C&I storage, solar-plus-storage and backup power.



Key Features



Highly Integrated
Highly integrated



Mature & Reliable
Mature & reliable



Flexible Expansion
Flexible expansion



Easy Operation
Easy operation



Ultimate Safety
Ultimate security



Multi-Parallel
Parallel connection



Intelligent Control
Intelligent control



Cost-Effective
Cost-effective



Long Lifespan
Long lifespan

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	125kW+241kWh	125kW+261kWh
PV Parameter		
Max. Power	60kW+60kW	
Max. PV Voltage	950V	
PV Startup Voltage	200V	
MPPT Range	600V-900V	
Max. PV Current	100A+100A	
AC Side		
Rated Power	125kVA	
Rated Current	181A	
Rated Voltage	400V/230V	
Voltage Range	-20%~15%	
Frequency Range	50Hz(47~52)/60Hz(57~62)	
Current THD	<3%	
Power Factor	-1~1	
Battery		
Battery Type	LiFePO ₄	LiFePO ₄
Modules	10	10
Config	1P240S	1P260S
Capacity	314Ah	314Ah
Nominal Voltage	768Vdc	832Vdc
Voltage Range	696~864Vdc	754~936.6Vdc
Energy	241kWh	261kWh
System		
Grid/Off-Grid Switch Switch	<10ms	
Max. Efficiency	98.2%	
Power Consumption	Standby<20W / No load<160W	
IP Rating	IP54	
Operating Temp.	-10°C~+50°C	
Humidity	5~95%	
Cooling	Liquid/air cooling	
Altitude	<4000m (derating above 2000m)	

IMAX MSP Series

250kW · MSP250HCG2

PV+ESS Hybrid Cabinet · Hybrid All-in-One Cabinet

Integrated PCS, MPPT, EMS, PCM transfer switch and AC/DC distribution. Supports genset, PV and battery input. Ideal for PV-diesel-storage microgrids, backup power, construction sites and oilfield operations.



Key Features

Fast Switching
Grid-switch <10ms

High Efficiency
>99.3% efficiency

Genset Hybrid
Genset hybrid

Grid-Forming
Grid-forming

Multi-Parallel
Up to 3 units

Smart EMS
EMS functions

Peak Shaving
Peak shaving

Anti-Backflow
Anti-backflow

Fast Deployment
All-in-one

Applications

C&I Storage · Backup Power

PV-Diesel Microgrid

PV Storage Charging Station

Specifications

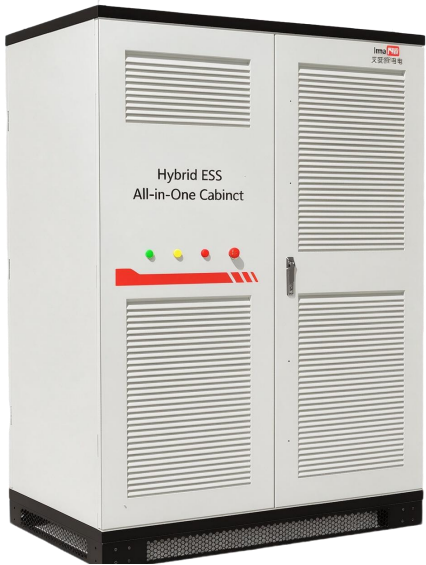
Model	MSP250HCG2
Battery	
Max. Battery Voltage	950V
Min. Battery Voltage	680V
Nom. Battery Voltage Range	680V-900V
Max. Battery Current	200A x 2
PV Parameter	
PV Power	120kW x 2
Max. PV Voltage	950V
Min. PV Voltage	200V
MPPT Range	600V-900V
Max. PV Input Current	200A x 2
On-grid	
Rated Power	250kVA
Rated Current	362A
Nominal Grid Voltage	400V/230V
Grid Voltage Range	-20%~15%
Grid Unbalance	125%
Grid Frequency Range	50Hz(47~52)/60Hz(57~62)
Current THD	<3% (>30% load)
Power Factor	-1~1
Off-grid	
Rated Output Power	250kVA
Max. Output Power	275kVA
Rated Output Current	362A
Max. Output Current	398.2A
Nominal Voltage	400V/230V
Output Voltage THD	<2% (resistive load)
Unbalance	100%
Frequency Range	50/60Hz
Overload	1.1x for 100s / 1.25x for 300ms
System	
Grid/Off-Grid Switch Switch Time	Active 0ms; Passive <10ms
Parallel Units	3 units
EMS Functions	SOC Balancing/Peak Shaving/Self-consumption/Feed-in/Cloud Platform/Anti-Backflow/Genset Hybrid
Isolation Transformer	None (transformer startup supported)
Bypass	400A
IP Rating	IP54
Dimensions (W×H×D)	1350 x 2200 x 850mm
Weight	≈610kg
Operating Temp.	-30~60°C (derating above 45°C)
Humidity	10-95%
Cooling	Air cooling
Altitude	4000m (derating above 2000m)

IMAX MSP Series

375kVA · MSP375HCG2

PV+ESS Hybrid Cabinet · Hybrid All-in-One Cabinet

Integrated PCS, MPPT, EMS, PCM transfer switch and AC/DC distribution. Supports genset, PV and battery input. Ideal for PV-diesel-storage microgrids, backup power, construction sites and oilfield operations.



Key Features

Fast Switching
Grid-switch <10ms

High Efficiency
>99.3% efficiency

Genset Hybrid
Genset hybrid

Grid-Forming
Grid-forming

Multi-Parallel
Up to 3 units

Smart EMS
EMS functions

Peak Shaving
Peak shaving

Anti-Backflow
Anti-backflow

Fast Deployment
All-in-one

Applications

C&I Storage · Backup Power

PV-Diesel Microgrid

PV Storage Charging Station

Specifications

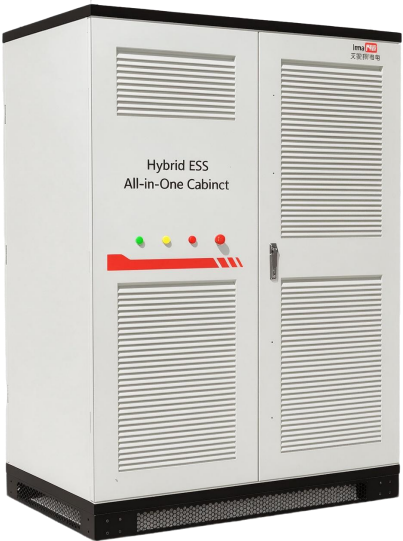
Model	MSP375HCG2
Battery	
Max. Battery Voltage	950V
Min. Battery Voltage	680V
Nom. Battery Voltage Range	680V-900V
Max. Battery Current	600A
PV Parameter	
PV Power	120kW x 3
Max. PV Voltage	950V
Min. PV Voltage	200V
MPPT Range	600V-900V
Max. PV Input Current	200A x 3
On-grid	
Rated Power	375kVA
Rated Output Current	543A
Nominal Grid Voltage	400V/230V (3P4L)
Grid Voltage Range	-20%~+15%
Grid Unbalance	125%
Grid Frequency Range	50Hz(47~52)/60Hz(57~62)
Current THD	<3% (>30% load)
Power Factor	-1~1
Off-grid	
Max. Output Power	412.5kVA
Max. Output Current	597.3A
Nominal Voltage	400V/230V
Output Voltage THD	<2% (resistive load)
Unbalance	100%
Overload	1.1x continuous / 1.25x for 60s
System	
Grid/Off-Grid Switch Switch Time	Active 0ms; Passive <20ms
Parallel Units	3 units (MAX)
EMS Functions	SOC Balancing/Peak Shaving/Self-consumption/Feed-in/Cloud Platform/Anti-Backflow/Genset Hybrid
Isolation Transformer	None (transformer startup supported)
Bypass	800A
IP Rating	IP54 / IP20
Dimensions (W×H×D)	1200 x 2000 x 1000mm
Weight	≈730kg
Operating Temp.	-30~60°C (derating above 45°C)
Humidity	10~100%
Cooling	Air cooling
Altitude	4000m (derating above 2000m)

IMAX MSP Series

500kW · MSP500HCG2

PV+ESS Hybrid Cabinet · Hybrid All-in-One Cabinet

Integrated PCS, MPPT, EMS, PCM transfer switch and AC/DC distribution. Supports genset, PV and battery input. Ideal for PV-diesel-storage microgrids, backup power, construction sites and oilfield operations.



Key Features

**Fast Switching**
Grid-switch <10ms

**High Efficiency**
>99.3% efficiency

**Genset Hybrid**
Genset hybrid

**Grid-Forming**
Grid-forming

**Multi-Parallel**
Up to 3 units

**Smart EMS**
EMS functions

**Peak Shaving**
Peak shaving

**Anti-Backflow**
Anti-backflow

**Fast Deployment**
All-in-one

Applications

C&I Storage · Backup Power

PV-Diesel Microgrid

PV Storage Charging Station

Specifications

Model	MSP500HCG2
Battery	
Max. Battery Voltage	950V
Min. Battery Voltage	680V
Nom. Battery Voltage Range	680V-900V
Max. Battery Current	200A x 4
PV Parameter	
PV Power	120kW x 4
Max. PV Voltage	950V
Min. PV Voltage	200V
MPPT Range	600V-900V
Max. PV Input Current	200A x 4
On-grid	
Rated Power	500kVA
Rated Current	724A
Nominal Grid Voltage	400V/230V
Grid Voltage Range	-20%~15%
Grid Unbalance	125%
Grid Frequency Range	50Hz(47~52)/60Hz(57~62)
Current THD	<3% (>30% load)
Power Factor	-1~1
Off-grid	
Rated Output Power	500kVA
Max. Output Power	550kVA
Rated Output Current	724A
Max. Output Current	796.4A
Nominal Voltage	400V/230V
Output Voltage THD	<2% (resistive load)
Unbalance	100%
Frequency Range	50/60Hz
Overload	1.1x for 100s / 1.25x for 300ms
System	
Grid/Off-Grid Switch Switch Time	Active 0ms; Passive <10ms
Parallel Units	3 units (MAX)
EMS Functions	SOC Balancing/Peak Shaving/Self-consumption/Feed-in/Cloud Platform/Anti-Backflow/Genset Hybrid
Isolation Transformer	None (transformer startup supported)
Bypass	800A
IP Rating	IP20
Dimensions (W×H×D)	1350 x 2200 x 850mm
Weight	≈850kg
Operating Temp.	-30~60°C (derating above 45°C)
Humidity	10-95%
Cooling	Air cooling
Altitude	4000m (derating above 2000m)

IMAX MSP Series

250kVA · MSP250HCG2-T

PV+ESS Hybrid Cabinet · Hybrid All-in-One Cabinet

Integrated PCS, MPPT, EMS, PCM transfer switch, isolation transformer and AC/DC distribution. IP54 protection. Ideal for PV-diesel-storage microgrids, diesel-storage backup and oilfield operations.



Key Features

Fast Switching
Grid-switch <20ms

High Efficiency
>99.3% efficiency

Genset Hybrid
Genset hybrid

Grid-Forming
Grid-forming

Multi-Parallel
Up to 3 units

Smart EMS
EMS functions

Peak Shaving
Peak shaving

Anti-Backflow
Anti-backflow

Fast Deployment
All-in-one

Applications

C&I Storage · Backup Power

PV-Diesel Microgrid

PV Storage Charging Station

Specifications

Model	MSP250HCG2-T
Battery	
Max. Battery Voltage	950V
Min. Battery Voltage	680V
Nom. Battery Voltage Range	680V-900V
Max. Battery Current	400A
PV Parameter	
PV Power	120kW x 2
Max. PV Voltage	950V
Min. PV Voltage	200V
MPPT Range	600V-900V
Max. PV Input Current	200A x 2
On-grid	
Rated Power	250kVA
Rated Output Current	362A
Nominal Grid Voltage	400V/230V (3P4L)
Grid Voltage Range	-20%~+15%
Grid Unbalance	125%
Grid Frequency Range	50Hz(47~52)/60Hz(57~62)
Current THD	<3% (>30% load)
Power Factor	-1~1
Off-grid	
Max. Output Power	275kVA
Max. Output Current	398A
Nominal Voltage	400V/230V
Output Voltage THD	<3% (resistive load)
Unbalance	100%
Overload	1.1x continuous / 1.25x for 60s
System	
Grid/Off-Grid Switch Switch Time	Active 0ms; Passive <20ms
Parallel Units	3 units (MAX)
EMS Functions	SOC Balancing/Peak Shaving/Self-consumption/Feed-in/Cloud Platform/Anti-Backflow/Genset Hybrid
Isolation Transformer	Built-in
Bypass	500A
IP Rating	IP54
Dimensions (W×H×D)	1000 x 1800 x 973mm
Weight	≈1310kg
Operating Temp.	-30~60°C (derating above 45°C)
Humidity	10~100%
Cooling	Air cooling
Altitude	4000m (derating above 2000m)

IMAX MSP Series

750kVA · MSP750HCG2-T

PV+ESS Hybrid Cabinet · Hybrid All-in-One Cabinet

Integrated PCS, EMS, isolation transformer and AC/DC distribution. Optional external STS. Six reserved PV input switches for DC-coupled systems. Ideal for backup power, diesel-storage systems and construction sites.



Key Features

Fast Switching
Grid-switch <20ms

High Efficiency
>99.3% efficiency

Genset Hybrid
Genset hybrid

Grid-Forming
Grid-forming

Multi-Parallel
Up to 3 units

Smart EMS
EMS functions

Peak Shaving
Peak shaving

Anti-Backflow
Anti-backflow

Fast Deployment
All-in-one

Applications

- C&I Storage · Backup Power
- PV-Diesel Microgrid
- PV Storage Charging Station

Specifications

Model	MSP750HCG2-T
Battery	
Max. Battery Voltage	950V
Min. Battery Voltage	680V
Nom. Battery Voltage Range	680V-900V
Max. Battery Current	200A x 6
On-grid	
Rated Power	750kVA
Rated Output Current	1086A
Nominal Grid Voltage	400V/230V (3P4L)
Grid Voltage Range	-20%~+15%
Grid Unbalance	125%
Grid Frequency Range	50Hz(47~52)/60Hz(57~62)
Current THD	<3% (>30% load)
Power Factor	-1~1
Off-grid	
Max. Output Power	825kVA
Max. Output Current	1194A
Nominal Voltage	400V/230V
Output Voltage THD	<3% (resistive load)
Unbalance	100%
Overload	1.1x continuous / 1.25x for 60s
System	
Grid/Off-Grid Switch Switch Time	<20ms (external STS required)
EMS Functions	SOC Balancing/Peak Shaving/Cloud Platform/Genset Hybrid
Isolation Transformer	Built-in
IP Rating	IP54
PV Access	6 reserved PV input switches (DC-coupled)
Dimensions (W×H×D)	1000 x 1800 x 973mm
Weight	≈1900kg
Operating Temp.	-30~60°C (derating above 45°C)
Humidity	10~100%
Cooling	Air cooling
Altitude	4000m (derating above 2000m)

Panshi Series

PS-ESS 105/241 · 125/261

Transformer Area ESSTransformer Area ESS

All-in-one liquid-cooled ESS designed for 0.4kV low-voltage transformer areas. Integrated battery PACK, BMS, PCS, EMS, liquid cooling and fire suppression. Supports peak shaving, demand management, anti-backflow, phase balancing and seamless grid/off-grid switching.



Key Features

Liquid-Cooled AIO
Liquid cooling AIO

Pack-Level Fire Supp.
Pack-level safety

Grid/Off-Grid Switch
Grid/off-grid switch

Smart EMS
Smart EMS

Capacity Boost
Capacity boost

Phase Balancing
Phase balancing

Anti-Backflow
Anti-backflow

UPS Backup
UPS backup

Multi-Unit Parallel
Multi-unit parallel

Applications

Transformer Overload Relief

PV+Storage+Charging

UPS Backup/UPS

Specifications

Model	PS-ESS 105/241	PS-ESS 125/261
Battery		
Cell Type	LiFePO ₄	LiFePO ₄
Cell Capacity	3.2V/314Ah	3.2V/314Ah
System Config	1P240S	1P260S
Capacity	241.152kWh	261.248kWh
Nominal Voltage	DC768V	DC832V
Voltage Range	DC600~876V	DC650~949V
Max Charge/Discharge Current	185A	157A
C-rate	0.5C	0.5C
On-grid		
Rated Power	105kW	125kW
Max Power	115kW	137.5kW
Rated Voltage	230/400V AC	380/400V AC
Voltage Range	-20%~15%	-15%~+15%
Connection	3P+N+PE	3P4W
Frequency	50/60Hz	50/60Hz
Switch Time	<20ms	<100ms
Power Factor	-0.99~+0.99	-0.99~+0.99
Off-grid		
Rated Power	105kW	125kW
Max Power	115kW	125kW
Rated Voltage	230/400V AC	380/400V AC
Frequency	50/60Hz	50/60Hz
System		
Max Efficiency	>86%	>88%
Cycle Life	≥6000 cycles	≥6000 cycles
IP Rating	IP54	IP54
Corrosion Class	C4	C4
Operating Temp.	-30~60°C (>derating above 45°C)	Discharge -10~55°C / Charge 0~55°C
Operating Altitude	≤4000m (derating above 2000m)	≤2000m
Cooling	Liquid cooling	Liquid cooling
Fire Suppression	Novec 1230 (Pack-level)	Aerosol
Dimensions	1300×1400×2300mm	1420×940×2550mm

Panshi Series

PS-ESS 125/522 · 250/522

Transformer Area ESSTransformer Area ESS

All-in-one liquid-cooled ESS designed for 0.4kV low-voltage transformer areas. Integrated battery PACK, BMS, PCS, EMS, liquid cooling and fire suppression. Supports peak shaving, demand management, anti-backflow, phase balancing and seamless grid/off-grid switching.



Key Features



Liquid-Cooled AIO
Liquid cooling AIO



Pack-Level Fire Supp.
Pack-level safety



Grid/Off-Grid Switch
Grid/off-grid switch



Smart EMS
Smart EMS



Capacity Boost
Capacity boost



Phase Balancing
Phase balancing



Anti-Backflow
Anti-backflow



UPS Backup
UPS backup



Multi-Unit Parallel
Multi-unit parallel

Applications

Transformer Overload Relief

PV+Storage+Charging

UPS Backup/UPS

Specifications

Model	PS-ESS 125/522	PS-ESS 250/522
Battery		
Cell Type	Type	LiFePO ₄
Cell Capacity		3.2V/314Ah
System Config		2P260S
Capacity		522.496kWh
Nominal Voltage		DC832V
Voltage Range		DC650~949V
AC Side		
Rated Power	125kW	250kW
PCS Configuration	1 × 125kW	2 × 125kW
Grid Voltage		380/400V AC (-15%~+15%)
Grid Frequency		50±5Hz
Current THDi		<3% (at rated power)
DC Offset		<0.5% (at rated current)
STSGrid/Off-Grid Switch STS	170kW (≤20ms)	330kW (≤20ms)
System		
Efficiency		≥88% @0.5P
Cycle Life		≥6000 cycles
IP Rating		IP55
Operating Temp.		-25~55℃ (>derating above 45℃)
Operating Altitude		≤2000m
Cooling		Liquid cooling
Fire Suppression		Aerosol + Water mist (Pack-level)
Communication		Ethernet/RS485/4G
System Weight	4850kg	4900kg
Dimensions	1876×1494×2354mm	1900×1420×2300mm