ImaxPWR
艾麦斯电源

2026 EDITION · IMAXPWR

4 SERIES 20 MODELS 15kW ~ 750kVA

ENERGY STORAGE SYSTEM SELECTION GUIDE

IMAXPWR ENERGY STORAGE · PRODUCT SELECTION MANUAL

Integrated energy storage products & system solutions

Grid-side ESS | C&I Storage | Transformer ESS | Microgrid | PV+ESS+EV | Backup Power

POWERING THE ENERGY TRANSITION

ENERGY STORAGE · POWER ELECTRONICS

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IMAX POWER TECHNOLOGY CO., LTD.

NATIONAL HIGH-TECH ENTERPRISE · GUANGDONG, CHINA

A national high-tech enterprise and a Guangdong contract-and-credit trustworthy enterprise with over 20 years of power-electronics expertise. As an OEM equipment manufacturer and one-stop ESS provider, we cover PCS, DC/DC, EMS and energy-storage cabinet integration.

2019	20+	999+
Founded	Years of expertise	Projects delivered

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IMAX HV-DC Series

High Voltage Battery Storage System

LiFePO$_4$ cells in a modular rack / cabinet design, supporting multi-unit parallel connection and flexible capacity expansion. Multiple protection against overcharge, over-discharge, overcurrent, short circuit and over-temperature. Suited to C&I storage, peak shaving and backup power.

Protection: overcharge / over-discharge / overcurrent / short circuit / over-temperature.

KEY SPECS Capacity **25~51kWh** · Cell capacity **100Ah** · Max. charge/discharge **50A**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		HV DC 256V 100AH	HV DC 307.2V 100AH	HV DC 409.6V 100AH	HV DC 512V 100AH
Basic	Case	Rack-mounted			
	Cell Type	LiFePO$_4$			
	Module Config	1P16S			
	Modules	5	6	8	10
Electrical	Nominal Voltage	256Vdc	307.2Vdc	409.6Vdc	512Vdc
	Cell Capacity	100Ah			
	Battery 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	Protection	Overcharge / Over-discharge / Overcurrent / Short circuit / Over-temp			
	Cooling	Natural cooling			
Comm. & Store	Comm.	CAN/RS485			
	Storage Temp.	0°C~30°C			
	Storage Period	6 months at 25°C			
Ambient	Safety	UN38.3, MSDS			
	IP Rating	IP20			
	Working Temp.	-10°C~+50°C			
	Humidity	0~95% (no condensation)			
	Altitude	<4000m (derate above 2000m)			
Dim. & Weight	Module Size	440×150×650 mm			
	Package Size	520×230×730 mm			
	N.W.	47kg			
	G.W.	50kg			

IMAX HV-DC Series

High Voltage Battery Storage System

LiFePO$_4$ cells in a modular rack / cabinet design, supporting multi-unit parallel connection and flexible capacity expansion. Multiple protection against overcharge, over-discharge, overcurrent, short circuit and over-temperature. Suited to C&I storage, peak shaving and backup power.

Protection: overcharge / over-discharge / overcurrent / short circuit / over-temperature.

KEY SPECS Capacity **51~102kWh** · Cell capacity **200Ah** · Max. charge/discharge **100A**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		HV DC 256V 200AH	HV DC 307.2V 200AH	HV DC 409.6V 200AH	HV DC 512V 200AH
Basic	Case	Rack-mounted			
	Cell Type	LiFePO$_4$			
	Module Config	1P16S			
	Modules	5	6	8	10
Electrical	Nominal Voltage	256Vdc	307.2Vdc	409.6Vdc	512Vdc
	Cell Capacity	200Ah			
	Battery 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	Protection	Overcharge / Over-discharge / Overcurrent / Short circuit / Over-temp			
	Cooling	Natural cooling			
Comm. & Store	Comm.	CAN/RS485			
	Storage Temp.	0°C~30°C			
	Storage Period	6 months at 25°C			
Ambient	Safety	UN38.3, MSDS			
	IP Rating	IP20			
	Working Temp.	-10°C~+50°C			
	Humidity	0~95% (no condensation)			
	Altitude	<4000m (derate above 2000m)			
Dim. & Weight	Module Size	440×230×660 mm			
	Package Size	500×400×740 mm			
	N.W.	90kg			
	G.W.	105kg			

IMAX HV-DC Series

High Voltage Battery Storage System

$LiFePO_4$ cells in a modular rack / cabinet design, supporting multi-unit parallel connection and flexible capacity expansion. Multiple protection against overcharge, over-discharge, overcurrent, short circuit and over-temperature. Suited to C&I storage, peak shaving and backup power.

Protection: overcharge / over-discharge / overcurrent / short circuit / over-temperature.

KEY SPECS Capacity **80~160kWh** · Cell capacity **314Ah** · Max. charge/discharge **150A**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		HV DC 256V 314AH	HV DC 307.2V 314AH	HV DC 409.6V 314AH	HV DC 512V 314AH
Basic	Case	Outdoor cabinet			
	Cell Type	$LiFePO_4$			
	Module Config	1P16S			
	Modules	5	6	8	10
Electrical	Nominal Voltage	256Vdc	307.2Vdc	409.6Vdc	512Vdc
	Cell Capacity	314Ah			
	Battery 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	Protection	Overcharge / Over-discharge / Overcurrent / Short circuit / Over-temp			
	Cooling	Liquid/air cooling (optional)			
Comm. & Store	Comm.	CAN/RS485			
	Storage Temp.	0℃~30℃			
	Storage Period	6 months at 25℃			
Ambient	Safety	UN38.3, MSDS			
	IP Rating	IP54			
	Working Temp.	-10℃~+50℃			
	Humidity	0~95% (no condensation)			
	Altitude	<4000m (derate above 2000m)			

IMAX HV-DC Series

High Voltage Battery Storage System

$LiFePO_4$ cells in a modular rack / cabinet design, supporting multi-unit parallel connection and flexible capacity expansion. Multiple protection against overcharge, over-discharge, overcurrent, short circuit and over-temperature. Suited to C&I storage, peak shaving and backup power.

Protection: overcharge / over-discharge / overcurrent / short circuit / over-temperature.

KEY SPECS Capacity **100~200kWh** · Cell capacity **314Ah** · Max. charge/discharge **150A**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		HV DC 320V 314AH	HV DC 448V 314AH	HV DC 576V 314AH	HV DC 640V 314AH
Basic	Case	Outdoor cabinet			
	Cell Type	$LiFePO_4$			
	Module Config	1P20S			
	Modules	5	7	9	10
Electrical	Nominal Voltage	320Vdc	448Vdc	576Vdc	640Vdc
	Cell Capacity	314Ah			
	Battery Capacity	100kWh	140kWh	180kWh	200kWh
	Voltage Range	290~360Vdc	406~504Vdc	522~648Vdc	580~720Vdc
	Charge Current	150A			
	Discharge Current	150A			
Protection	Protection	Overcharge / Over-discharge / Overcurrent / Short circuit / Over-temp			
	Cooling	Liquid/air cooling (optional)			
Comm. & Store	Comm.	CAN/RS485			
	Storage Temp.	0°C~30°C			
	Storage Period	6 months at 25°C			
Ambient	Safety	UN38.3, MSDS			
	IP Rating	IP54			
	Working Temp.	-10°C~+50°C			
	Humidity	0~95% (no condensation)			
	Altitude	<4000m (derate above 2000m)			

IMAX HV-DC Series

High Voltage Battery Storage System

$LiFePO_4$ cells in a modular rack / cabinet design, supporting multi-unit parallel connection and flexible capacity expansion. Multiple protection against overcharge, over-discharge, overcurrent, short circuit and over-temperature. Suited to C&I storage, peak shaving and backup power.

Protection: overcharge / over-discharge / overcurrent / short circuit / over-temperature.

KEY SPECS Capacity **120~241kWh** · Cell capacity **314Ah** · Max. charge/discharge **150A**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		HV DC 384V 314AH	HV DC 537.6V 314AH	HV DC 691.2V 314AH	HV DC 768V 314AH
Basic	Case	Outdoor cabinet			
	Cell Type	$LiFePO_4$			
	Module Config	1P24S			
	Modules	5	7	9	10
Electrical	Nominal Voltage	384Vdc	537.6Vdc	691.2Vdc	768Vdc
	Cell Capacity	314Ah			
	Battery 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	Protection	Overcharge / Over-discharge / Overcurrent / Short circuit / Over-temp			
	Cooling	Liquid/air cooling (optional)			
Comm. & Store	Comm.	CAN/RS485			
	Storage Temp.	0℃~30℃			
	Storage Period	6 months at 25℃			
Ambient	Safety	UN38.3, MSDS			
	IP Rating	IP54			
	Working Temp.	-10℃~+50℃			
	Humidity	0~95% (no condensation)			
	Altitude	<4000m (derate above 2000m)			

IMAX HV-DC Series

High Voltage Battery Storage System

$LiFePO_4$ cells in a modular rack / cabinet design, supporting multi-unit parallel connection and flexible capacity expansion. Multiple protection against overcharge, over-discharge, overcurrent, short circuit and over-temperature. Suited to C&I storage, peak shaving and backup power.

Protection: overcharge / over-discharge / overcurrent / short circuit / over-temperature.

KEY SPECS Capacity **130~261kWh** · Cell capacity **314Ah** · Max. charge/discharge **150A**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		HV DC 416V 314AH	HV DC 499.2V 314AH	HV DC 665.6V 314AH	HV DC 832V 314AH
Basic	Case	Outdoor cabinet			
	Cell Type	$LiFePO_4$			
	Module Config	1P26S			
	Modules	5	6	8	10
Electrical	Nominal Voltage	416Vdc	499.2Vdc	665.6Vdc	832Vdc
	Cell Capacity	314Ah			
	Battery 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	Protection	Overcharge / Over-discharge / Overcurrent / Short circuit / Over-temp			
	Cooling	Liquid cooling			
Comm. & Store	Comm.	CAN/RS485			
	Storage Temp.	0℃~30℃			
	Storage Period	6 months at 25℃			
Ambient	Safety	UN38.3, MSDS			
	IP Rating	IP20			
	Working Temp.	-10℃~+50℃			
	Humidity	0~95% (no condensation)			
	Altitude	<4000m (derate above 2000m)			

IMAX HV-AIO Series

All-in-One Commercial & Industrial Energy Storage

Integrates PCS, MPPT and battery system in a single unit, with seamless on/off-grid switching and PV access. Modular design for flexible expansion; suited to C&I storage, PV+ESS integration and backup power.

System: on/off-grid switching <10ms · max. efficiency 98.2%.

KEY SPECS Rated power **15kVA** · Rated energy **30/40kWh** · Modules **6/8**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		15kW+30kWh	15kW+40kWh
PV Parameter	Max. Power	15kW+15kW	
	Max. PV Voltage	850V	
	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 Harmonics	<3%	
	Power Factor	-1~1	
Battery	Cell Type	$LiFePO_4$	$LiFePO_4$
	Modules	6	8
	Series/Parallel	1P96S	1P128S
	Rated Capacity	100Ah	100Ah
	Nominal Voltage	307.2Vdc	409.6Vdc
	Voltage Range	278.4~345.6Vdc	371.2~460.8Vdc
	Rated Energy	30kWh	40kWh
System	Grid Changeover	<10ms	
	Max. Efficiency	98.2%	
	Power Consump.	Standby<20W / No load<160W	
	IP Rating	IP20/IP54 (Optional)	
	Working Temp.	-10℃~+50℃	
	Humidity	5~95%	
	Cooling	Natural/air cooling	
	Altitude	<4000m (derate above 2000m)	

IMAX HV-AIO Series

All-in-One Commercial & Industrial Energy Storage

Integrates PCS, MPPT and battery system in a single unit, with seamless on/off-grid switching and PV access. Modular design for flexible expansion; suited to C&I storage, PV+ESS integration and backup power.

System: on/off-grid switching <10ms · max. efficiency 98.2%.

KEY SPECS Rated power **25kVA** · Rated energy **51/61kWh** · Modules **10/6**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		25kW+51kWh	25kW+61kWh
PV Parameter	Max. Power	15kW+15kW	
	Max. PV Voltage	850V	
	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 Harmonics	<3%	
	Power Factor	-1~1	
Battery	Cell Type	$LiFePO_4$	$LiFePO_4$
	Modules	10	6
	Series/Parallel	1P160S	1P96S
	Rated Capacity	100Ah	200Ah
	Nominal Voltage	512Vdc	307.2Vdc
	Voltage Range	464~576Vdc	278.4~345.6Vdc
	Rated Energy	51kWh	61kWh
System	Grid Changeover	<10ms	
	Max. Efficiency	98.2%	
	Power Consump.	Standby<20W / No load<160W	
	IP Rating	IP20/IP54 (Optional)	
	Working Temp.	-10℃~+50℃	
	Humidity	5~95%	
	Cooling	Natural/air cooling	
	Altitude	<4000m (derate above 2000m)	

IMAX HV-AIO Series

All-in-One Commercial & Industrial Energy Storage

Integrates PCS, MPPT and battery system in a single unit, with seamless on/off-grid switching and PV access. Modular design for flexible expansion; suited to C&I storage, PV+ESS integration and backup power.

System: on/off-grid switching <10ms · max. efficiency 98.2%.

KEY SPECS Rated power **30kVA** · Rated energy **61/81kWh** · Modules **6/8**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		30kW+61kWh	30kW+81kWh
PV Parameter	Max. Power	15kW+15kW	
	Max. PV Voltage	850V	
	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 Harmonics	<3%	
	Power Factor	-1~1	
Battery	Cell Type	$LiFePO_4$	$LiFePO_4$
	Modules	6	8
	Series/Parallel	1P96S	1P128S
	Rated Capacity	200Ah	200Ah
	Nominal Voltage	307.2Vdc	409.6Vdc
	Voltage Range	278.4~345.6Vdc	371.2~460.8Vdc
	Rated Energy	61kWh	81kWh
System	Grid Changeover	<10ms	
	Max. Efficiency	98.2%	
	Power Consump.	Standby<20W / No load<160W	
	IP Rating	IP20/IP54 (Optional)	
	Working Temp.	-10℃~+50℃	
	Humidity	5~95%	
	Cooling	Liquid/air cooling	
	Altitude	<4000m (derate above 2000m)	

IMAX HV-AIO Series

All-in-One Commercial & Industrial Energy Storage

Integrates PCS, MPPT and battery system in a single unit, with seamless on/off-grid switching and PV access. Modular design for flexible expansion; suited to C&I storage, PV+ESS integration and backup power.

System: on/off-grid switching <10ms · max. efficiency 98.2%.

KEY SPECS Rated power **50kVA** · Rated energy **96/128kWh** · Modules **6/8**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		50kW+96kWh	50kW+128kWh
PV Parameter	Max. Power	38.4kW+38.4kW	
	Max. PV Voltage	850V	
	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 Harmonics	<3%	
	Power Factor	-1~1	
Battery	Cell Type	$LiFePO_4$	$LiFePO_4$
	Modules	6	8
	Series/Parallel	1P96S	1P128S
	Rated Capacity	314Ah	314Ah
	Nominal Voltage	307.2Vdc	409.6Vdc
	Voltage Range	278.4~345.6Vdc	371.2~460.8Vdc
	Rated Energy	96kWh	128kWh
System	Grid Changeover	<10ms	
	Max. Efficiency	98.2%	
	Power Consump.	Standby<20W / No load<160W	
	IP Rating	IP54	
	Working Temp.	-10℃~+50℃	
	Humidity	5~95%	
	Cooling	Air cooling	
	Altitude	<4000m (derate above 2000m)	

IMAX HV-AIO Series

All-in-One Commercial & Industrial Energy Storage

Integrates PCS, MPPT and battery system in a single unit, with seamless on/off-grid switching and PV access. Modular design for flexible expansion; suited to C&I storage, PV+ESS integration and backup power.

System: on/off-grid switching <10ms · max. efficiency 98.2%.

KEY SPECS Rated power **60kVA** · Rated energy **128/160kWh** · Modules **8/10**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		60kW+128kWh	60kW+160kWh
PV Parameter	Max. Power	38.4kW+38.4kW	
	Max. PV Voltage	850V	
	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 Harmonics	<3%	
	Power Factor	-1~1	
Battery	Cell Type	$LiFePO_4$	$LiFePO_4$
	Modules	8	10
	Series/Parallel	1P128S	1P160S
	Rated Capacity	314Ah	314Ah
	Nominal Voltage	409.6Vdc	512Vdc
	Voltage Range	371.2~460.8Vdc	464~576Vdc
	Rated Energy	128kWh	160kWh
System	Grid Changeover	<10ms	
	Max. Efficiency	98.2%	
	Power Consump.	Standby<20W / No load<160W	
	IP Rating	IP54	
	Working Temp.	-10℃~+50℃	
	Humidity	5~95%	
	Cooling	Air cooling	
	Altitude	<4000m (derate above 2000m)	

IMAX HV-AIO Series

All-in-One Commercial & Industrial Energy Storage

Integrates PCS, MPPT and battery system in a single unit, with seamless on/off-grid switching and PV access. Modular design for flexible expansion; suited to C&I storage, PV+ESS integration and backup power.

System: on/off-grid switching <10ms · max. efficiency 98.2%.

KEY SPECS Rated power **100kVA** · Rated energy **200/217kWh** · Modules **10/9**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		100kW+200kWh	100kW+217kWh
PV Parameter	Max. Power	4x38.4kW	
	Max. PV Voltage	850V	
	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 Harmonics	<3%	
	Power Factor	-1~1	
Battery	Cell Type	$LiFePO_4$	$LiFePO_4$
	Modules	10	9
	Series/Parallel	1P200S	1P216S
	Rated Capacity	314Ah	314Ah
	Nominal Voltage	640Vdc	691.2Vdc
	Voltage Range	580~720Vdc	626~777.6Vdc
	Rated Energy	200kWh	217kWh
System	Grid Changeover	<10ms	
	Max. Efficiency	98.2%	
	Power Consump.	Standby<20W / No load<160W	
	IP Rating	IP54	
	Working Temp.	-10℃~+50℃	
	Humidity	5~95%	
	Cooling	Liquid/air cooling	
	Altitude	<4000m (derate above 2000m)	

IMAX HV-AIO Series

All-in-One Commercial & Industrial Energy Storage

Integrates PCS, MPPT and battery system in a single unit, with seamless on/off-grid switching and PV access. Modular design for flexible expansion; suited to C&I storage, PV+ESS integration and backup power.

System: on/off-grid switching <10ms · max. efficiency 98.2%.

KEY SPECS Rated power **125kVA** · Rated energy **241/261kWh** · Modules **10/10**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Highly integrated
2. Mature & reliable
3. Flexible expansion
4. Easy operation
5. Ultimate security
6. Parallel connection
7. Intelligent control
8. Cost-effective
9. Long lifespan

TECHNICAL SPECIFICATIONS

Parameter		125kW+241kWh	125kW+261kWh
PV Parameter	Max. Power	60kW+60kW	
	Max. PV Voltage	950V	
	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 Harmonics	<3%	
	Power Factor	-1~1	
Battery	Cell Type	$LiFePO_4$	$LiFePO_4$
	Modules	10	10
	Series/Parallel	1P240S	1P260S
	Rated Capacity	314Ah	314Ah
	Nominal Voltage	768Vdc	832Vdc
	Voltage Range	696~864Vdc	754~936.6Vdc
	Rated Energy	241kWh	261kWh
System	Grid Changeover	<10ms	
	Max. Efficiency	98.2%	
	Power Consump.	Standby<20W / No load<160W	
	IP Rating	IP54	
	Working Temp.	-10℃~+50℃	
	Humidity	5~95%	
	Cooling	Liquid/air cooling	
	Altitude	<4000m (derate above 2000m)	

IMAX MSP Series

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

Integrates PCS, MPPT, EMS, PCM on/off-grid changeover switch and AC/DC distribution. Accepts genset, PV and battery inputs; mainly used in PV+ESS+genset microgrids, reserve / emergency power, construction sites and oilfield applications.

System: on/off-grid switching active 0ms / passive <10ms · up to 3 units in parallel.

KEY SPECS Rated power **250kVA** · Max. output **275kVA** · Parallel **3 units**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Grid-switch <10ms
2. >99.3% efficiency
3. Genset hybrid
4. Grid-forming
5. Up to 3 units
6. EMS functions
7. Peak shaving
8. Anti-backflow
9. All-in-one

TECHNICAL SPECIFICATIONS

Parameter		MSP250HCG2
Battery	Max. Battery V.	950V
	Min. Battery V.	680V
	Nom. Battery Range	680V-900V
	Max. Battery I.	200A x 2
PV Parameter	PV Power	120kW x 2
	Max. PV Voltage	950V
	Min. PV Voltage	200V
	MPPT Range	600V-900V
	Max. Input Current	200A x 2
AC On-grid	Rated Power	250kVA
	Rated Current	362A
	Nom. Grid Voltage	400V/230V
	Grid Voltage Range	-20%~15%
	Grid Unbalance	125%
	Grid Frequency Range	50Hz(47~52)/60Hz(57~62)
	Current THD	<3% (above 30% load)
	Power Factor	-1~1
AC Off-grid	Rated Output Power	250kVA
	Max. Output Power	275kVA
	Rated Output Current	362A
	Max. Output Current	398.2A
	Nominal Voltage	400V/230V
	Output THD	<2% (resistive load)
	Unbalance	100%
	Frequency Range	50/60Hz
	Output Overload	1.1x 100s / 1.25x 300ms
System	Changeover Time	Active 0ms; passive <10ms
	Parallel Units	3 units
	EMS Functions	SOC balancing / peak shaving / self-consumption / surplus-to-grid / cloud platform / anti-backflow / genset hybrid
	Isolation Transformer	No (transformer start-up supported)
	Bypass	400A
	IP Rating	IP54
	Dimensions (W×H×D)	1350×2200×850 mm
	Weight	≈610kg
	Operating Temp.	-30~60℃ (derate above 45℃)
	Humidity	10-95%
	Cooling	Air cooling
	Altitude	4000m (derate above 2000m)

IMAX MSP Series

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

Integrates PCS, MPPT, EMS, PCM on/off-grid changeover switch and AC/DC distribution. Accepts genset, PV and battery inputs; mainly used in PV+ESS+genset microgrids, reserve / emergency power, construction sites and oilfield applications.

System: on/off-grid switching active 0ms / passive <20ms · up to 3 units in parallel.

KEY SPECS Rated power **375kVA** · Max. output **412.5kVA** · Parallel **3 units**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Grid-switch <10ms
2. >99.3% efficiency
3. Genset hybrid
4. Grid-forming
5. Up to 3 units
6. EMS functions
7. Peak shaving
8. Anti-backflow
9. All-in-one

TECHNICAL SPECIFICATIONS

Parameter		MSP375HCG2
Battery	Max. Battery V.	950V
	Min. Battery V.	680V
	Nom. Battery Range	680V-900V
	Max. Battery I.	600A
PV Parameter	PV Power	120kW x 3
	Max. PV Voltage	950V
	Min. PV Voltage	200V
	MPPT Range	600V-900V
	Max. Input Current	200A x 3
AC On-grid	Rated Power	375kVA
	Rated Current	543A
	Nom. 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
AC Off-grid	Max. Output Power	412.5kVA
	Max. Output Current	597.3A
	Nominal Voltage	400V/230V
	Output THD	<2% (resistive load)
	Unbalance	100%
	Output Overload	1.1x continuous / 1.25x 60s
System	Changeover Time	Active 0ms; passive <20ms
	Parallel Units	3 units (MAX)
	EMS Functions	SOC balancing / peak shaving / self-consumption / surplus-to-grid / cloud platform / anti-backflow / genset hybrid
	Isolation Transformer	No (transformer start-up supported)
	Bypass Cap.	800A
	IP Rating	IP54 / IP20
	Dimensions (W×H×D)	1200×2000×1000 mm
	Weight	≈730kg
	Operating Temp.	-30~60℃ (derate above 45℃)
	Humidity	10~100%
	Cooling	Air cooling
	Altitude	4000m (derate above 2000m)

IMAX MSP Series

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

Integrates PCS, MPPT, EMS, PCM on/off-grid changeover switch and AC/DC distribution. Accepts genset, PV and battery inputs; mainly used in PV+ESS+genset microgrids, reserve / emergency power, construction sites and oilfield applications.

System: on/off-grid switching active 0ms / passive <10ms · up to 3 units in parallel.

KEY SPECS Rated power **500kVA** · Max. output **550kVA** · Parallel **3 units**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Grid-switch <10ms
2. >99.3% efficiency
3. Genset hybrid
4. Grid-forming
5. Up to 3 units
6. EMS functions
7. Peak shaving
8. Anti-backflow
9. All-in-one

TECHNICAL SPECIFICATIONS

Parameter		MSP500HCG2
Battery	Max. Battery V.	950V
	Min. Battery V.	680V
	Nom. Battery Range	680V-900V
	Max. Battery I.	200A x 4
PV Parameter	PV Power	120kW x 4
	Max. PV Voltage	950V
	Min. PV Voltage	200V
	MPPT Range	600V-900V
	Max. Input Current	200A x 4
AC On-grid	Rated Power	500kVA
	Rated Current	724A
	Nom. Grid Voltage	400V/230V
	Grid Voltage Range	-20%~15%
	Grid Unbalance	125%
	Grid Frequency Range	50Hz(47~52)/60Hz(57~62)
	Current THD	<3% (above 30% load)
	Power Factor	-1~1
AC Off-grid	Rated Output Power	500kVA
	Max. Output Power	550kVA
	Rated Output Current	724A
	Max. Output Current	796.4A
	Nominal Voltage	400V/230V
	Output THD	<2% (resistive load)
	Unbalance	100%
	Frequency Range	50/60Hz
	Output Overload	1.1x 100s / 1.25x 300ms
System	Changeover Time	Active 0ms; passive <10ms
	Parallel Units	3 units (MAX)
	EMS Functions	SOC balancing / peak shaving / self-consumption / surplus-to-grid / cloud platform / anti-backflow / genset hybrid
	Isolation Transformer	No (transformer start-up supported)
	Bypass	800A
	IP Rating	IP20
	Dimensions (W×H×D)	1350×2200×850 mm
	Weight	≈850kg
	Operating Temp.	-30~60℃ (derate above 45℃)
	Humidity	10-95%
	Cooling	Air cooling
	Altitude	4000m (derate above 2000m)

IMAX MSP Series

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

Integrates PCS, MPPT, EMS, PCM on/off-grid changeover switch, isolation transformer and AC/DC distribution. Supports multi-source input from genset, PV and battery; IP54 enclosure for PV+ESS+genset microgrids, genset-battery reserve power and oilfield applications.

System: on/off-grid switching active 0ms / passive <20ms · built-in isolation transformer · up to 3 units in parallel.

KEY SPECS Rated power **250kVA** · Max. output **275kVA** · Parallel **3 units**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Grid-switch <20ms
2. >99.3% efficiency
3. Genset hybrid
4. Grid-forming
5. Up to 3 units
6. EMS functions
7. Peak shaving
8. Anti-backflow
9. All-in-one

TECHNICAL SPECIFICATIONS

Parameter		MSP250HCG2-T
Battery	Max. Battery V.	950V
	Min. Battery V.	680V
	Nom. Battery Range	680V-900V
	Max. Battery I.	400A
PV Parameter	PV Power	120kW x 2
	Max. PV Voltage	950V
	Min. PV Voltage	200V
	MPPT Range	600V-900V
	Max. Input Current	200A x 2
AC On-grid	Rated Power	250kVA
	Rated Current	362A
	Nom. 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
AC Off-grid	Max. Output Power	275kVA
	Max. Output Current	398A
	Nominal Voltage	400V/230V
	Output THD	<3% (resistive load)
	Unbalance	100%
	Output Overload	1.1x continuous / 1.25x 60s
System	Changeover Time	Active 0ms; passive <20ms
	Parallel Units	3 units (MAX)
	EMS Functions	SOC balancing / peak shaving / self-consumption / surplus-to-grid / cloud platform / anti-backflow / genset hybrid
	Isolation Transformer	Built-in
	Bypass Cap.	500A
	IP Rating	IP54
	Dimensions (W×H×D)	1000×1800×973 mm
	Weight	≈1310kg
	Operating Temp.	-30~60℃ (derate above 45℃)
	Humidity	10~100%
	Cooling	Air cooling
	Altitude	4000m (derate above 2000m)

IMAX MSP Series

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

Integrates PCS, EMS, isolation transformer and AC/DC distribution, with optional external STS changeover. Six PV access switches are reserved for DC-coupled systems; mainly used for emergency power, genset-battery systems and construction sites.

System: on/off-grid switching <20ms (external STS required) · built-in isolation transformer · 6 x PV access switches reserved.

KEY SPECS Rated power **750kVA** · Max. output **825kVA** · Battery current **200A×6**



APPLICATIONS

- C&I storage · backup power
- PV+ESS+genset microgrid
- PV+ESS EV charging station

KEY FEATURES

1. Grid-switch <20ms
2. >99.3% efficiency
3. Genset hybrid
4. Grid-forming
5. Up to 3 units
6. EMS functions
7. Peak shaving
8. Anti-backflow
9. All-in-one

TECHNICAL SPECIFICATIONS

Parameter		MSP750HCG2-T
Battery	Max. Battery V.	950V
	Min. Battery V.	680V
	Nom. Battery Range	680V-900V
	Max. Battery I.	200A x 6
AC On-grid	Rated Power	750kVA
	Rated Current	1086A
	Nom. 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
AC Off-grid	Max. Output Power	825kVA
	Max. Output Current	1194A
	Nominal Voltage	400V/230V
	Output THD	<3% (resistive load)
	Unbalance	100%
	Output Overload	1.1x continuous / 1.25x 60s
System	Changeover 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 x PV access switches reserved (DC-coupled)
	Dimensions (W×H×D)	1000×1800×973 mm
	Weight	≈1900kg
	Operating Temp.	-30~60℃ (derate above 45℃)
	Humidity	10~100%
	Cooling	Air cooling
	Altitude	4000m (derate above 2000m)

IMAX PANSHI Series

Transformer-Area Energy Storage System

An All-in-One liquid-cooled storage solution designed for 0.4kV low-voltage transformer areas. Integrates battery packs, BMS, PCS, EMS, liquid-cooling unit and fire suppression. Supports peak shaving, demand management, anti-backflow, three-phase unbalance mitigation and seamless on/off-grid switching — for transformer-area overload relief, PV+ESS+EV integration and backup power.

System: All-in-One liquid-cooled cabinet · pack-level fire suppression · on/off-grid switching <20ms / <100ms · IP54 / C4.

KEY SPECS Rated power **105 / 125kW** · Max. power **115 / 137.5kW** · Cycle life **≥6000 cycles**



APPLICATIONS

- Transformer overload relief
- PV+ESS+EV integration
- Backup power / UPS

KEY FEATURES

1. Liquid cooling AIO
2. Pack-level safety
3. Grid/off-grid switch
4. Smart EMS
5. Capacity boost
6. Phase balancing
7. Anti-backflow
8. UPS backup
9. Multi-unit parallel

TECHNICAL SPECIFICATIONS

Parameter		PS-ESS 105/241	PS-ESS 125/261
Battery	Cell Type	$LiFePO_4$	
	Cell Capacity	3.2V/314Ah	
	Config	1P240S	1P260S
	Rated Capacity	241.152kWh	261.248kWh
	Nominal Voltage	DC768V	DC832V
	Voltage Range	DC600~876V	DC650~949V
	Max. Charge/Disch. I.	185A	157A
	C-rate	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	3-phase 4-wire
	Rated Frequency	50/60Hz	
	Changeover Time	<20ms	<100ms
	Power Factor	-0.99~+0.99	
Off-grid	Rated Power	105kW	125kW
	Max. Power	115kW	125kW
	Rated Voltage	230/400V AC	380/400V AC
	Rated Frequency	50/60Hz	
System	Max. Efficiency	>86%	>88%
	Cycle Life	≥6000 cycles	
	IP Rating	IP54	
	Corrosion Class	C4	
	Operating Temp.	-30~60℃ (derate above 45℃)	Discharge -10~55℃ / charge 0~55℃
	Altitude	≤4000m (derate above 2000m)	≤2000m
	Cooling	Liquid cooling	
	Fire Suppression	Novec 1230 (pack level)	Aerosol
	Cabinet Dimensions	1300×1400×2300mm	1420×940×2550mm

IMAX PANSHI Series

Transformer-Area Energy Storage System

An All-in-One liquid-cooled storage solution designed for 0.4kV low-voltage transformer areas. Integrates battery packs, BMS, PCS, EMS, liquid-cooling unit and fire suppression. Supports peak shaving, demand management, anti-backflow, three-phase unbalance mitigation and seamless on/off-grid switching — for transformer-area overload relief, PV+ESS+EV integration and backup power.

System: All-in-One liquid-cooled cabinet · pack-level fire suppression · STS on/off-grid switching (≤20ms) · IP55 · multi-unit parallel.

KEY SPECS Rated power **125 / 250kW** · Rated capacity **522.496kWh** · Cycle life **≥6000 cycles**



APPLICATIONS

- Transformer overload relief
- PV+ESS+EV integration
- Backup power / UPS

KEY FEATURES

1. Liquid cooling AIO
2. Pack-level safety
3. Grid/off-grid switch
4. Smart EMS
5. Capacity boost
6. Phase balancing
7. Anti-backflow
8. UPS backup
9. Multi-unit parallel

TECHNICAL SPECIFICATIONS

Parameter		PS-ESS 125/522	PS-ESS 250/522
Battery	Cell Type	$LiFePO_4$	
	Cell Capacity	3.2V/314Ah	
	Config	2P260S	
	Rated Capacity	522.496kWh	
	Nominal Voltage	DC832V	
	Voltage Range	DC650~949V	
AC	Rated Power	125kW	250kW
	PCS Config	1×125kW	2×125kW
	Grid Voltage	380/400V AC (-15%~+15%)	
	Grid Frequency	50±5Hz	
	Current THD (THDi)	<3% (rated power)	
	DC Offset	<0.5% (rated current)	
	STS Changeover	170kW (≤20ms)	330kW (≤20ms)
System	Efficiency	≥88% @0.5P	
	Cycle Life	≥6000 cycles	
	IP Rating	IP55	
	Operating Temp.	-25~55℃ (derate above 45℃)	
	Altitude	≤2000m	
	Cooling	Liquid cooling	
	Fire Suppression	Aerosol + water mist (pack level)	
	Comm.	Ethernet/RS485/4G	
	System Weight	4850kg	4900kg
	Cabinet Dimensions	1876×1494×2354mm	1900×1420×2300mm