



**PRI:LOGY**<sup>®</sup>  
SYSTEMS GMBH



**THREE-PHASE  
ENERGY STORAGE SYSTEM  
FOR RESIDENTIAL BUILDINGS**

# THREE-PHASE ENERGY STORAGE SYSTEM FOR RESIDENTIAL BUILDINGS

## iStoragE3 Series 5K-12K



### INDEPENDENT

- Built-in EMS function with multi-mode operation (achieves energy independence)
- Real uninterruptible power supply, switching time < 10ms
- Stronger backup power up to 20 kW

### SAFE

- Physical and electrical dual isolation
- Modular fire protection integration
- AFCI function integration (optional)

### SIMPLE

- All-in-one design
- Modular installation, quick plug connector
- Multiple battery expansion, multiple system

### SMART

- Multi-point real-time monitoring, adaptive State-of-Charge management (SoC)
- Pack-level battery management, active balance of charging and discharging
- Intelligent energy management with weather forecast function



## SYSTEM SPECIFICATIONS

Items	iStorageE3 5K Series	iStorageE3 6K Series	iStorageE3 8K Series	iStorageE3 10K Series	iStorageE3 12K Series
System components					
Inverter model	iStorageE3 5K	iStorageE3 6K	iStorageE3 8K	iStorageE3 10K	iStorageE3 12K
Number of inverters	1				
Battery system model	iStorageE B5-S2				
Number of battery modules	1-8				
General					
Cell technology	LiFePO4				
System capacity	5-40kWh				
Rated system power	5kW	6kW	8kW	10kW	12kW
Dimension (W*H*D)	800*1995*240mm/31.49*78.54*9.45in (four battery modules, with foundation)				
Noise emission	<30dB				
Cooling type	Natural cooling				
Altitude	2000m/6561ft				
Operating temperature	-20-50°C/-4-122°F				
Recommended operating temperature	15-30 °C/59-86°F				
Storage temperature	-10-45 °C/14-113°F				
Operating humidity	0-100%RH				
Display	LED & APP				
Installation method	Floor or wall-mounted (optional)				
Communication interface	Portal-WiFi (standard)/4G (optional), Meter-RS485, EMS-RS485 (sunspec)				

## HYBRID INVERTER

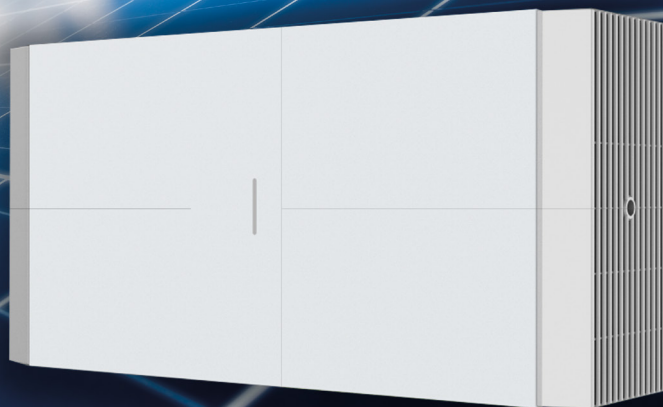
Items	iStorageE3 5K		iStorageE3 6K	iStorageE3 8K	iStorageE3 10K	iStorageE3 12K
DC input (PV)						
Recommended max. PV input power	9kWp			18kWp		
Max. PV input voltage				1000VDC		
No. of MPPTs				2		
No. of PV strings per MPPT	1/1			2/1		
Max. PV input current	16A/16A			27A/16A		
Max. short current	20A/20A			34A/20A		
MPPT voltage range				150-900VDC		
Starting voltage				180VDC		
DC (PV) switch				Yes		
DC input (battery)						
Battery voltage range				650-900VDC		
AC input and output (on-grid)						
Rated AC output power	5kW		6kW	8kW	10kW	12kW
Rated AC output voltage				380/400VAC, 3W/N/PE		
Grid voltage range				323-418VAC/340-440VAC		
Max. output current	7.9A		9.6A	12.8A	16A	17.4A
Max. input current	14.4A		17.4A	23.2A	26A	26A
Rated grid frequency				50Hz/60Hz		
Grid frequency range				45-55Hz/55-65Hz		
Power factor				>0.99 (rated power)		
Adjustable power factor				0.8 (leading)-0.8 (lagging)		
THDi				<3% (rated power)		
AC output (backup)						
Rated AC output voltage				380/400Vac, 3W/N/PE		
Rated output frequency				50/60Hz		
Rated output power	5kW		6kW	8kW	10kW	12kW
Peak output power	12kW, 60s			20kW, 60s		
Peak output current	18.2A, 60s			30.4A, 60s		
Switch time				<10ms (without parallel), <300ms (parallel)		
Support the unbalance load				Yes		
Efficiency						
Max. efficiency				98.3%		
European efficiency				97.5%		
General						
Weight				27kg/59.52lb (including side plates)		
Dimension (W*H*D)				800*400*200mm/ 31.49*15.75*7.87in (including side plates)		
Enclosure type				IP65		
Certification				EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-1/2/3/4, EN 50549-1 NC RfG, PPDS,CEI 0-21, VDE AR-N-4105, VDE V 0124-100		

Subject to modifications

# iStoragE B5-S2 SERIES

## BATTERY

- Safe and reliable
- Intelligent and flexible
- Easy operating and monitoring



## LITHIUM-ION BATTERY MODUL

Items	iStoragE B5-S2
General	
Cell technology	LiFePO4
Energy capacity	5kWh
Usable capacity	5kWh
Scalability	8
Scalable capacity range	5-40kWh
DOD	100%
Rated power	4kW
Voltage range	650-900VDC
Maximum charge current	6.15A
Maximum discharge current	6.15A 7.38A, 10s
Dimension (W*H*D)	800*380*238mm/31.49*14.6*9.37in (including side plates)
Weight	52kg/114.64lb (including side plates)
Operating temperature	-20~50°C/-4~122°F
Recommended operating temperature	15~30°C/59~86°F
Storage temperature	-10~45°C/14~113°F
Humidity	0-100%RH
Altitude	2000m/6561ft
Cooling type	Natural cooling
Display	LED
Communication interface	RS485, CAN
Topology	Isolated
Connection method	Floor or Wall mounted (optional)
Enclosure type	IP65
Certification	IEC 62619, IEC 60730, UN38.3
Subject to modifications	

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