

COSLINK ESS

储能系统集成商

Leading Energy Storage System Integrator

解决方案提供商

Trustworthy Energy Storage Solution Provider

互宇数字能源科技(深圳)有限公司

COSLINK DIGITAL ENERGY TECHNOLOGY CO., LTD.

互宇数字能源科技(深圳)有限公司,致力于成为全球一流的分布式储能系统集成商和解决方案提供商。基于我司智能主控式技术,互宇可为客户提供用户能源、站点能源等应用领域的智能储能产品及综合一体化解决方案,使客户用电更经济、更稳定、更智能。

COSLINK Digital Energy Technology Co., Ltd. is committed to becoming a world-class distributed energy storage system (ESS) integrator and solution provider. COSLINK can provide customers with ESS products and comprehensive integrated solutions in application fields such as site energy storage (including macro station and micro station ESS) & user energy storage (including residential ESS and industrial & commercial ESS) based on its smart ActivePack technology and help to make the power more economic, reliable, and intelligent.

互宇数能产品线

COSLINK Business Lines

用户能源

User ESS

-家庭储能
-Residential ESS

-工商业储能
-Commercial & Industrial ESS

站点能源

Site ESS

-宏站储能
-Macro station ESS

-微站储能
-Micro station ESS



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EnerMax-HEBS

ActivePack Technology
Residential Energy Storage System

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Features and Advantages



Smarter

- Smart active control technology
- Intelligent charge & discharge control
- **Intelligent BMS**



High performance

- Cycle life: **6000 times**
- Excellent current balancing performance
- Wide temperature range applications
- Stronger overcurrent ability



High safety

- **LiFePO4 cells**
- Multiple real-time warnings and protections
- Built-in with a DC switch to isolate battery & inverter
- Built in fire-proof module



Compact and modular

- Modular design
- **Great expandability**
- Ultra slim & compact design



Certification compliant

- IEC62619, IEC62620, EN61000, UL1973, UN38.3
EN50549, IEC62109, EN61000, **G99**, NRS097



Smart management

- Local & remote monitoring
- **APP & Cloud platform**

The Leader of ESS Active Control Technology

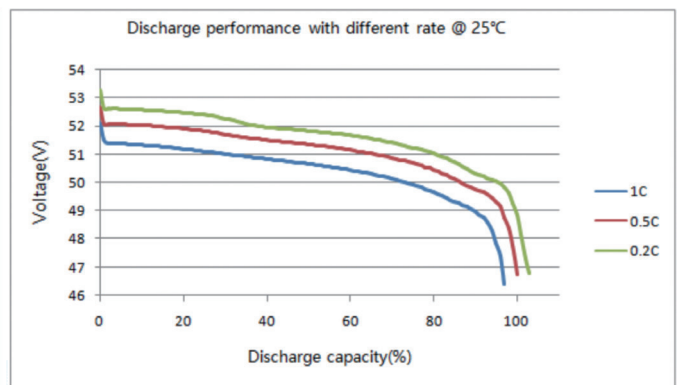
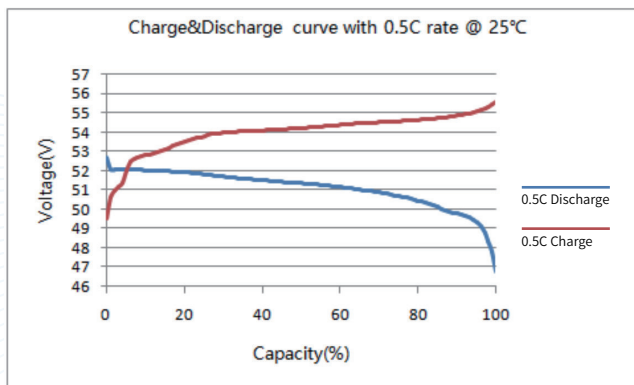
Future Green Energy: More Reliable, More Intelligent, More Economic



UN38.3

Model	HEBS48V200-P
Battery Type	LFP
Nominal Voltage [V]	48
Energy Capacity [kWh]	9.6 kWh @0.5C, 25 °C
Dimensions [W*D*H, mm]	600*180*1200
Rated Output Voltage [V]	56.4
Output Voltage Range [V]	40~58 (support constant voltage output)
Output Power [W]	9600
Max. Out Current [A]	180 / 200
Weight [kg]	106
Cycle Life	6,000 times (25 °C, 0.5C, 90% DOD, 70% EOL)
Communication Interface	RS485/CAN
Max Parallel Quantity	16 (CAN), 8 (RS485)
Equilibrium Mode	Balanced current
Balanced Current [mA]	100
Cooling Mode	Air cooling
IP Grade	IP65
Installation Method	Floor model
Fire Fighting Mode	Built-in aerosol
Working Temperature [°C]	Charge: 0~45, Discharge: -20~45
Storage Temperature [°C]	0~40
Relative Humidity	5%~95%
Protection and Alarm	Overcharge protection, over-discharge protection, over current, etc.
Design Life	15 years
Work Mode	Battery characteristic discharge output mode, peak clipping mode, off-peak mode, etc.
Optional Accessories	Anti-theft function

Performance Curve



Note: The above information may subject to update without prior notice.

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EnerMax-HEBS

Stand-Alone ActivePack Technology
Residential Energy Storage System



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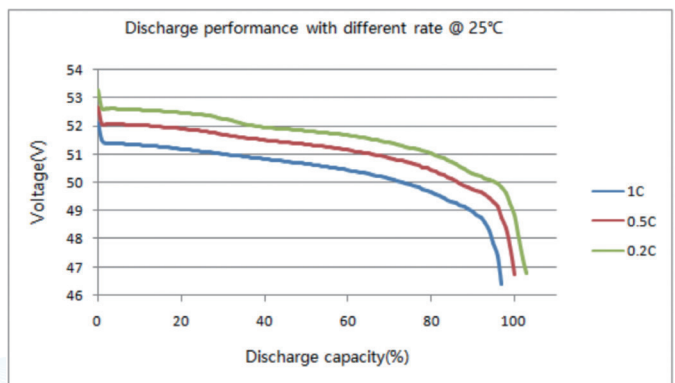
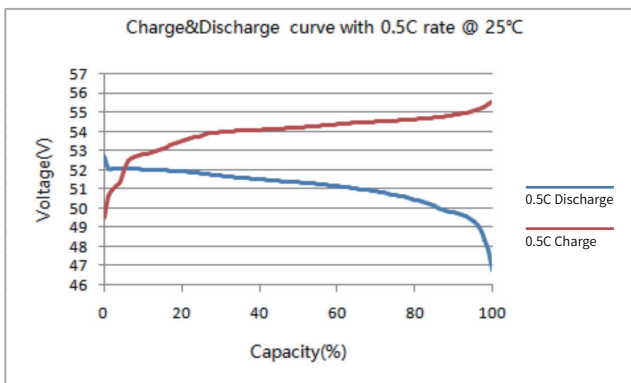
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UN38.3

Production Model	HEBS48V200	HEBS48V300	HEBS48V400
Battery Type	LFP		
Nominal Voltage [V]	48		
Energy Capacity [kWh]	9.6 @0.5C, 25 °C	14.4 @0.5C, 25 °C	19.2 @0.5C, 25 °C
Dimensions [W*D*H, mm]	700*350*700	700*350*1300	
Rated Output Voltage [V]	56.4		
Output Voltage Range [V]	40~58 (support of constant voltage output)		
Output Power [W]	9600	14400	19200
Max. Out current [A]	180 / 200		
Weight [kg]	108	166	208
Cycle Life	6000 times (25 °C, 0.5C, 90% DOD, 70% EOL)		
Communication Interface	RS485/CAN		
Max. Parallel Quantity	16 (CAN), 8 (RS485)	8 (CAN), 4 (RS485)	
Equilibrium Mode	Balanced current		
Balanced Current [mA]	100		
Cooling Mode	Air cooling		
IP Grade	IP65		
Installation Method	Floor model		
Fire Fighting Mode	Built-in aerosol		
Working Temperature [°C]	Charge: 0~45, Discharge: -20~45		
Storage Temperature [°C]	0~40		
Relative Humidity	5%~95%		
Protection and Alarm	Overcharge protection, over-discharge protection, over current, etc.		
Design Life	15 years		
Work Mode	Battery characteristic discharge output mode, peak clipping mode, off-peak mode, etc.		
Optional Accessories	Anti-theft function		

Performance Curve



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Features and Advantages



Smarter

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UN38.3

Model	HIS6K5-AM	HIS6K10-AM	HIS6K15-AM	HIS10K20-AM
Hybrid inverter parameters				
	Input (PV)			
Max. Power [kW]	7.5	7.5	7.5	12
Max. DC Voltage [V]	600			
MPPT Voltage Range [V]	120-550			
MPPT Strings	2			
Max. Input Current Of Single MPPT [A]	15	15	15	18
	AC output (on-grid)			
Rated Output Power [kW]	7.5	7.5	7.5	12
Rated Grid Voltage [V]	120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)			
Rated Grid Voltage Range [V]	Split phase, 2/3 phase, single phase			
Rate Grid Frequency [Hz]	50/60			
Max. AC Current [A]	25	25	25	41.5
	AC output (off-grid)			
Rated Power [kW]	7.5	7.5	7.5	12
Rated Voltage [V]	Split phase, 2/3 phase, single phase			
THDU	< 2%			
Rated Frequency [Hz]	50/60			
Rated Current [A]	40			
Battery Parameters				
Model	HEB48V100			
Capacity of Battery Pack [kWh]	5	10	15	20
Battery Type	LFP			
Rated Voltage [V]	48			
Rated Capacity [Ah]	104			
Max. Continuous Charge / Discharge Current [A]	90/100			
Dimensions [W*D*H,mm]	442*400*130			
Weight [kg]	39			
System Parameters				
IP Grade	IP65			
Operating Temperature Range [°C]	Charge: 0~+45; Discharge: -20~+45			
Relative Humidity	5%~95% RH (non-condensing)			
Dimensions [W*D*H, mm]	700*350*1470		700*350*2100	
Weight [kg]	123	162	223	262
Hybrid Inverter Certificates	UL1741, IEEE1547, CSA C22.2			
Battery Certificates	UN38.3, MSDS, IEC62619, CE			

Note:

- Battery System: 5/10/15/20 kWh can be flexibly configured as required;
- hybrid inverter: 6/10 kW can be flexibly configured as required.
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HEV30KP-US Residential DC Charging Pile System

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Battery subsystem



Control subsystem

Features and Advantages



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Smart management

- Local & remote monitoring
- **APP & Cloud platform**

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UN38.3

Model	HEV30KP-US	ActivePack Parameters
PV Input		
Max.PV Input Power [W]	14500	Battery Type LiFePO4
Max.PV Input Voltage [V]	1000	
MPPT Voltage Range [V]	350~900	Individual Battery Energy [kWh] 7.68
MPPT Voltage Range @ Full Load [V]	500~900	
Start-Up Voltage [V]	320	Battery Voltage [V] 400
Norminal Input Voltage [V]	720	
Max.Input Current [A]	18	Battery Capacity [Ah] 150
Max.Short-Circuit Current [A]	25	
Number of MPPT Trackers/ Number of Input Strings per MPPT Tracker	2/1	
AC Input		
Start-Up Voltage / Auto Restart Voltage [V]	85 (P-N), 170 (P-P)/ 90 (P-N), 180 (P-P)	Battery Capacity [Ah] 150
Acceptable Input Voltage [VAC]	85- 140 (P-N)/ 170 - 280 (P-P)	
Max.AC Input Current [A]	40	
AC Output (On Grid)		
Norminal Power [kW]	10	Scalability 1 pack/2 packs/3 packs
Max. Power [kW]	10	
Norminal Voltage [V]	110/120 VAC (Phase to N), L1/L2/N/PE	Norminal Voltage [V] 400
Max.Current [A]	41.5 A per phase	
Rated Frequency [Hz]	50/60	Operating Voltage Range [V] 350~450
Power Factor	0.8 lead to 0.8 lag	
Total Current Harmonic Distortion	< 5%	
AC Output (Off Grid)		
Norminal Power [kW]	10	Norminal Energy [kWh] 7.68/15.36/23.04
Norminal Voltage [V]	110/120 VAC (Phase to N), L1/L2/N/PE	
Rated Frequency [Hz]	50/60	Norminal Charging and Discharging Current [A] 7/14/21
Max.Conversion Efficiency [Solar to Grid]	96%	
Max.Conversion Efficiency [Solar to Battery]	97%	Cycle Life [3] ≥ 6000 (25°C±2°C, 0.5C/0.5C, 70% EOL)
Max.Conversion Efficiency [Battery to Load]	96%	
EV Charcer Output		
Charging Type	DC fast charging	Recommend Depth of Discharge 90%
Outlet Options	C: CCS2; A: CCS1; J: CHAdeMO; G: GBT	
DC Outpput Voltage [V]	250~1000	Dimensions [W*D*H, mm] 650*150*360/650*150*720/650*150*1080
DC Output Power Rating [Max.] [kW]	30	
DC Output Current [Max.] [A]	80	Weight [kg] 68/136/204
Charging Cable Length	3.5m (6m optional)	
Short Circuit Current [KA]	≤ 10	Installation Floor-mounted, wall-mounted
Inrush Current [A]	≤ 100	
Leakage Current [mA]	≤ 0.8	Communication Port CAN2.0, RS485
Efficiency [DC-DC]	97%	
Energy Metering	Metering for DC outlets	Certification IEC62619, CE, VDE 2510-10, UN38.3, UKCA, UL9540
Protection	OCPP, OVP, UVL, Surge, DC leakage	
Display and Communication		
User Interface	7" LCD high-contrast touchscreen	
Supported Charging Protocol	GB/CCS1/CCS2/CHAdeMO	
BMS Communication	RS485	
Communication	OCPP 1.6 core and smart charging profiles	
RFID System	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode	
General		
Operating Temperature Range [°C]	Charge: 0~55°C/Discharge: -20°C~55°C	
Storage Temperature Range [°C]	0~35°C	
Reletive Humidity Range	0~95%	
Max. Altitude	Up to 2000m	
Protective Grade	IP65 with external smart fan	
Dimensions [W*D*H, mm]	700 x 220 x 1310 (control subsystem) + battery subsystem (TBD)	
Weight [kg]	80 (control subsystem) + battery subsystem (TBD)	

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HEB5-LV

Features and Advantages



Smarter

- Smart active control technology
- Intelligent charge & discharge control
- **Intelligent BMS**



High performance

- Cycle life: **6000 times**
- Excellent current balancing performance
- Wide temperature range applications
- Stronger overcurrent ability



High safety

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Compact and modular

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Smart management


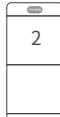
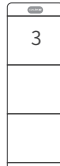

- Local & remote monitoring
- **APP & Cloud platform**

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UN38.3

Model	HEB5-LV			
Hybrid Inverter Parameters				
Battery Chemistry	LiFePO4			
Battery Module Energy [kWh]	5.12			
Battery Module Voltage [V]	51.2			
Battery Module Capacity [Ah]	100			
Scalability				
Norminal Voltage [V]	51.2			
Operating Voltage [V]	40~58 (Constant Voltage Output)			
Rated Energy [kWh]	5.12	10.24	15.36	20.48
Usable Energy [kWh] [1]	4.608	9.216	13.824	18.432
Charge/Discharge Current [A] [recommend]	50	100	150	200
Charge/Discharge Current [A] [peak]	100	200	250	250
Energy Throughput [kWh] [2]	16819.2	33638.4	50457.6	67276.8
Cycle Life [3]	≥ 6000 (25°C±2°C, 0.5C/0.5C, 70%EOL)			
Other Parameters				
Recommend Depth of Discharge	90%			
Dimensions [W*D*H, mm]	573*189*597	573*189*912	573*189*1227	573*189*1542
Weight [kg]	65	115	165	215
IP Rating of Endosure	IP65			
Operating Temperature	Charge: 0~55°C/Discharge: -20°C~55°C			
Storage Temperature	0~35°C			
Humidity	5%~95%			
Altitude [m]	≤ 2000			
Installation	Floor-mounted, wall-mounted			
Communication Port	CAN2.0, RS485			
Warranty	10 years			
Certification	UN38.3, IEC62619, CE, UL9540, UL9540A, FCC			

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. The system usable energy may vary due to system configuration.

[2] The current is affected by temperature and SOC.

[3] The warranty is due whichever reached first of warranty period or energy throughput.

System Components	
Cluster Control Box	720*255*110 (W x D x H,mm), 13kg
Battery Module	650*150*360 (W x D x H,mm), 68kg
Base	720*255*90 (W x D x H,mm), 10kg
Communication Cable	3m RJ45 communication cable with one end having a waterproof terminal
Power Cable	2 pieces of 2/0 AWG DC power cable with one end having a waterproof terminal The cable length can be customized based on customer requirements (default length is 2000mm)

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HEB8-HV

Features and Advantages



Smarter

- Smart active control technology
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High performance

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UN38.3

Model	HEB8-HV		
Hybrid Inverter Parameters			
Battery Chemistry	LiFePO4		
Battery Module Energy [kWh]	7.68		
Battery Module Voltage [V]	400		
Battery Module Capacity [Ah]	150		
Scalability			
Norminal Voltage [V]	400		
Operating Voltage [V]	350~450		
Rated Energy [kWh]	7.68	15.36	23.04
Usable Energy [kWh] [1]	6.9	13.8	20.7
Charge/Discharge Current [A] [Recommend]	7	14	21
Charge/Discharge Current [A] [Peak]	20	30	30
Energy Throughput [kWh] [2]	25185	50370	75555
Cycle Life [3]	≥ 6000 (25°C±2°C, 0.5C/0.5C, 70%EOL)		
Other Parameters			
Recommend Depth of Discharge	90%		
Dimensions [W*D*H, mm]	650*150*360	650*150*720	650*150*1080
Weight [kg]	68	136	204
IP Rating of Endosure	IP65		
Operating Temperature	Charge: 0~55°C/Discharge: -20°C~55°C		
Storage Temperature	0~35°C		
Humidity	5%~95%		
Altitude [m]	≤ 2000		
Installation	Floor-mounted, wall-mounted		
Communication Port	CAN2.0, RS485		
Warranty	10 years		
Certification	UN38.3, IEC62619, CE		
<p>[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. The system usable energy may vary due to system configuration.</p> <p>[2] The current is affected by temperature and SOC.</p> <p>[3] The warranty is due whichever reached first of warranty period or energy throughput.</p>			
System Components			
EMS	720*255*110 (W x D x H,mm), 13kg		
Battery Module	650*150*360 (W x D x H,mm), 68kg		
Base	720*255*90 (W x D x H,mm), 10kg		
Communication Cable	3m RJ45 communication cable with one end having a waterproof terminal		
Power Cable	2 pieces of 2/0 AWG DC power cable with one end having a waterproof terminal The cable length can be customized based on customer requirements (default length is 2000mm)		

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Distributed Power Control Cabinet

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Features and Advantages



Highly integrated

- Support of simultaneous input from batteries and PV
- Assure 24-hour green power for industrial and commercial use
- Simplified after-sales operation and maintenance



Security

- Support of distributed layout
- Distributed arrangement, higher security
- Cluster management: less self-power-consuming



Smart

- Local EMS real-time monitoring
- Support of peak shaving function, PV & energy storage control, and energy storage/charging pile control
- Support of multiple parallel connection

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Green Energy: More Reliable, More Intelligent, More Economic



UN38.3

Model		CP100KP-US	CP150KP-US	CP250K	CP630K
PV Side	Max. PV Input Voltage [V]	1000V			
	Max. PV Input Power [kW]	110	165	NA	
	MPPT Voltage Range [V]	250~850V			
	Number of MPPT	2			
Battery Side	Battery Type	LFP			
	Voltage Range [V]	400-850		460-850	550-1000
	Max. Charge Power [kW]	110	165	275	693
AC Side (On-Grid)	Rated Power [kW]	100	150	250	630
	Rated Voltage [V]	400; American standard 480 optional			380
	Voltage Range	-20% ~ +15%			-15% ~ +10%
	Rated Frequency [Hz]	50/60			
	Frequency Range [Hz]	Rated voltage±5			Rated voltage±5
	Power Factor	>0.99 (rated power)			
	Total Current Harmonic Distortion	≤ 3%			
	AC Side (Off-Grid)	Rated Power [kW]	100	150	250
Rated Voltage [V]		400; American standard 480 optional			380
Rated Frequency [Hz]		50/60			
Overload Capacity		≤ 110%, 120% (1 min)			
Total Voltage Harmonic Distortion		≤ 3%			
System Parameters	Unbalanced Load Capacity	100%			<2%, momentary 4%
	AC Access Mode	3W+N+PE			
	Dimensions [W*D*H, mm]	1200*935*2000			
	Weight [kg]	1350	1600	1750	950
	Isolation	Isolation transformer			transformer less
	Cooling	Smart temperature control			
	IP Rating of Endosure	IP54			
	Fire Fighting	Aerosol			
	Communication	Ethernet, RS485, CAN			
	Operation Temperature Range	-30~60°C (> 50°C derating)			-25~65°C (> 55°C derating)
	PCS Certificates	CE, IEC61000, IEC62477-1:2012, EC61727, EC62116, GB/T34120, GB/T34133			

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COSLINK ESS

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EnerMax-C&I
All-in-One ESS



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Features and Advantages



Highly integrated

- All-in-one and modular design
- Support of stacking and expansion installation
- Simplified after-sales operation and maintenance



Security

- Local and cloud EMS real-time monitoring
- Built-in aerosol firefighting system
- Reserved water firefighting interface



Smart

- Multiple energy management modes
- Support of peak shaving function, PV & energy storage control, and energy storage/charging pile control
- Support of multiple parallel connection

The Leader of ESS Active Control Technology
Green Energy: More Reliable, More Intelligent, More Economic



UN38.3

Model	CS10KP60-US	CS30KP60-US	CS30K60-US
Hybrid Inverter Parameters			
Input (PV)			
Max.Power [kW]	12	45	
MPPT Voltage Range [V]	120~550	200~750 (430~750 @full load)	NA
Max.Input Current of Single MPPT [A]	18	35/35/35	
MPPT Tracker/Strings	2	3	
AC Output (On-Grid)			
Rated Output Power [kVA]	10	30	
Grid Voltage/Range [VAC]	120 (P-N), 208 (P-P), 240 (P-P)	3P3W+PE, 480 (±15%)	
Frequency [Hz]		60 (±2.5) Hz	
Max.Input Current [A]	41.5	32.5*2	
Power Factor	0.9 lag ~ 0.9 lead	Listed: 0.8~1 lead or lag Actual: 0.1~1 lead or lag	
THDi		< 3%	
Communication Port	RS485/CAN/LAN/REPO	CAN/RS485/Ethernet/WiFi	
AC Output (Off-Grid)			
Overload Capacity		110%~120%, 10 min; 120%~130%, 1 min; 130%~150%, 200 ms > 150%, 100 ms	
ActivePack Parameters			
Battery Voltage Range [V]	48~62	288~372	
Battery Capacity [kWh]		64.5	
Max.Battery Current	300	70@53.5V	
Number of Batteries in Parallel		6	
Communication Interface		RS485/CAN	
System Parameters			
DC Max. Efficiency	96.00%	97.30%	
Protection Grade		IP54	
Operation Temperature	-25 to 55°C (> 45°C power derating)	-30 to 60°C (> 45°C power derating)	
Cooling		Forced air cooling	
Relative Humidity		0~ 95% RH (non-condensing)	
Altitude [m]		3000m (> 3000m derating)	
Dimensions [W*D*H, mm]	515 x 215.5 x 715 (wall-mounted inverter) + 800 x 950 x 2200	800 x 950 x 2200	
Weight [kg]	622	657	633
Certificates		IEC61000, UN38.3, UL9540	

Note: The above information may subject to update without prior notice.

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EnerMax-C&I
Distributed Battery Cabinet

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Features and Advantages



Highly integrated

- Cluster-level intelligent management
- Support of stacking and expansion installation
- Simplified after-sales operation and maintenance



Security

- Local EMS real-time monitoring
- Built-in aerosol firefighting system
- Reserved water firefighting interface



Smart

- No container design, flexible site layout
- Support of multiple parallel connection

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UN38.3

Model	CB215-0.5C
Nominal Capacity [Ah]	280 (25°C 0.5C discharge)
Nominal Voltage [V]	768
Nominal Energy [kWh]	215
Max. Discharge Depth	≤ 90%
Max. Continuous Charge Current [A]	140 (0.5C)
Charge Cut-Off Voltage [V]	852
Max. Continuous Discharge Current [A]	140 (0.5C)
Discharge Cut-Off Voltage [V]	696
Dimensions [W*D*H, mm]	1500*950*2200
Charging Temperature Range [°C]	0 to 45
Discharging Temperature Range [°C]	-20 to +60
Optimal Operating Temperature Range [°C]	20 to 30
Storage Humidity	60 ± 25% RH
Cooling	Smart temperature control
Communication	CAN2.0, RS485
Weight [kg]	~1950
IP Grade	IP54
Fire-Proof	Aerosol

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EnerMax-C&I
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Distributed Energy Storage Cabinet



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Features and Advantages



Highly integrated

- All-in-one and modular design
- Support of stacking and expansion installation
- Simplified after-sales operation and maintenance



Security

- Local and cloud EMS real-time monitoring
- Built-in aerosol firefighting system
- Reserved water firefighting interface



Smart

- Multiple energy management modes
- Support of peak shaving function, PV & energy storage control, and energy storage/charging pile control
- Support of multiple parallel connection

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UN38.3

Model	CS50K50S-H	CS50K100S-H	CS30KP50-H	CS60KP100-H
PV Side (Hybrid Inverter, Optional)				
MPPT Voltage Range [V]			350~900	350~900
Number of MPPT Trackers			2	2
Maximum Input Current [A]			26	26
DC Side				
Battery	LFP			
Rated Voltage [V]	512	512	512	512
Rated Energy [kWh]	51.2	102.4	51.2	102.4
Battery Voltage Range [V]	464-568	464-568	464-568	464-568
Max. DC Current [A]	90/100	180/200	90/100	180/200
AC Side (On-Grid)				
Rated Power [kW]	50	50	30	60
Max. AC Power [kVA]	55	55	33	66
Max. AC Current [A]	80	80	50	50
Rated Voltage [V]	400 VAC (P-P)			
Voltage Range	-20% ~ +15%			
Rated Frequency [Hz]	50/60			
Frequency Range [Hz]	Rated frequency \pm 3			
Power Factor	$>$ 0.99 (rated frequency)			
THDi	\leq 3%			
Overload Capacity	\leq 110% (continuous)			
AC Side (Off-Grid)				
Rated Power [kW]	50	50	30	60
Rated Voltage [V]	400			
Rated Frequency [Hz]	50/60			
Frequency Range [Hz]	Rated frequency \pm 0.05			
THDU	\leq 3%			
Overload Capacity	\leq 110% (continuous), 120% (1 min)			
Other				
AC Connection Mode	3P+N+PE			
On and Off-Grid Switch Time [ms]	\leq 20 ms			
Battery Dimensions [W*D*H, mm]	800*950*2200			
Hybrid Inverter Dimensions [W*D*H, mm]	660*255*750			
Weight [kg]	~978	~1023	~978	~1023
Isolation	Non-isolated			
Cooling	Smart temperature control			
IP Grade	IP54			
Noise [dB]	$<$ 65			
Fire-Proof	Aerosol			
Communication	Ethernet, RS485, CAN			
Working Temperature [°C]	-20~+60			

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EnerSmart
TC48V24H Integrated Outdoor
Power Supply System

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Features and Advantages



Highly integrated

- All-in-one and modular design
- Multiple input and output models (power-grid, diesel generator, solar energy)
- Reserved space for communication devices



Smarter

- EMS real-time monitoring
- Variety of energy storage working modes (peak shifting, peak shaving, etc.)
- Support of multiple systems' parallel connection



Reliable

- Multi-module redundancy (N+1)
- Multiple cooling methods: air conditioning, heat exchanger, and forced air cooling
- Real-time warnings and protections

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UN38.3

Model		TC48V24H
AC input	Rated input mode [V]	380
	Input capacity [A]	63A/4P*1 (AC MCB)
	Input frequency [Hz]	45~66 (rated: 50/60)
	AC SPD [kA]	40 kA/20 kA, 8/20 μs
AC output	AC leakage switch [A]	10A*1/RCCB 30 mA
	AC outlet [A]	10A*1
Standby power generator input	Input mode [Vac]	Rated: 380
	Input capacity [A]	63A/4P*1 (AC MCB)
	2-way input manual switch	Yes
PV input (if requested)	Rated input mode [Vdc]	102
	Input voltage range [Vdc]	70~150
	Input capacity [A]	63A/2P*4 (PV MCB to be installed in the cabinet)
	PV SPD [kA]	40 kA / 20 kA, 8/20 μs (PV SPD installed in the cabinet)
DC distribution	Output voltage [Vdc]	-42~-58 (rated: -53.5)
	Maximum capacity [kW]	24
	Battery breakers	100A/1P*N (N way battery breakers installed in the cabinet)
	LLVD branches	3*32A/1P, 3*63A/1P
	BLVD branches	1*10A/1P, 7*32A/1P
	DC SPD [kA]	40 kA/20 kA, 8/20 μs
Operation	Operating temperature [°C]	-40 ~ +55
	Storage temperature [°C]	-40 ~ +75
	Operating humidity	5%~95% RH (non-condensing)
	Altitude [m]	0~4000 (When altitude is 3000~4000m, the max. operating temperature decreases 1°C by 200m.)
PV modules	Peak efficiency	≥ 97%
	Power [W]	3000
	MPPT accuracy	≥ 0.99
	Voltage regulation accuracy	±1%
	Dimensions [W x D x H, mm]	106.5 * 286 * 41.5 (1U)
Rectifier	Peak efficiency	≥ 96%
	Power [W]	3000/4000 (176-300 Vac)
	Power factor	≥ 0.99
	THD	≤ 5%
	Dimensions [W x D x H, mm]	106.5 * 286 * 41.5 (1U)
Controller	Signal input	DI*6
	Alarm output	DO*6
	Communication port	RS485*1, LAN*1
	Display mode	LCD screen
Battery	Capacity [Ah]	100/150
	SOC precision	≤ 5%
	Rated output voltage [V]	52.8
	Maximum charging current [A]	90
	Maximum discharging current [A]	100
Others	Reserved space	12U
	Cooling	Heat exchange or forced air cooling
	Protection grade	IP55
	Cabinet dimensions [W * D * H, mm]	750 * 800 * 2200

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EnerSmart
BS48V100/BS51.2V100 Li-ion Battery

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Features and Advantages



Smarter

- Smart active control technology
- Intelligent charge & discharge control
- Integrated BMS and high efficiency BDC optimizer



High performance

- Cycle life: **6000 times**
- Wide application temperature range
- Excellent current balancing performance
- Mixed use with lead-acid battery & conventional lithium batteries



Great safety

- Reliable LiFePO4 cells
- Multiple real-time warnings and protections
- Built-in pressure release valve



Compact and modular

- Standard 19" rack-mounted design (3U)
- Modular design



Certification compliant

- IEC62619, IEC62620, UN38.3, EN61000, UL1973



Smart management

- Local & remote monitoring
- Advanced working modes: peak shaving mode, peak shifting mode, etc.
- Precise calibration of SOC and SOH

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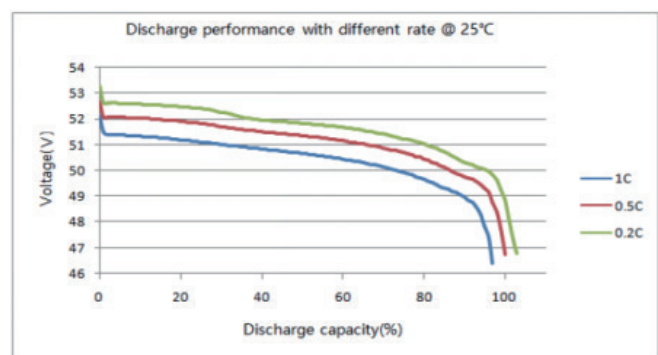
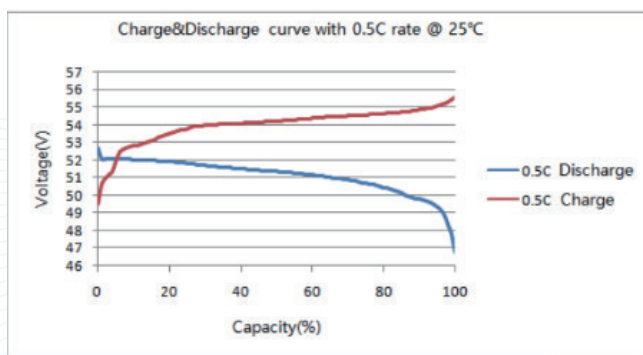
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UN38.3

Model	BS48V100	BS51.2V100
Battery Type	LFP	
Rated Voltage [V]	48	51.2
Rated Capacity [Ah]	100 Ah @0.5C, 25°C	
Dimensions [W*D*H, mm]	442 * 400 * 130.5	
Rated Discharging Voltage [V]	52.8	
Discharging Voltage Range [V]	40~58 (consistent voltage)	
Output Power [W]	4800	
Max. Continuous Discharging Current [A]	90/100	
Weight [kg]	39	42
Cycle Life [Times]	6000 times (25°C, 0.5C, 80% DOD)	
Communication	RS485 * 1, CAN * 1, and dry contact * 2	
Parallel Connection	Up to 32 packs (CAN)/16 packs (RS485)	
Balance Method	Passive balancing	
Equalizing Current [mA]	100	
Heat Dissipation	Natural cooling	
Working Temperature [°C]	Charging: 0 ~ 55; discharging: -20 ~ 55	
Storage Temperature [°C]	0~45	
Relative Humidity	5%~95% RH (non-condensing)	
Protection and Alarm	Overheat, over-current, short circuit, over-charging, over-discharging, etc.	
Designed Life Time	15 years	
Working Methods	1. Bus voltage following mode 2. Constant voltage output mode 3. Battery characteristic discharge output mode 4. Peak shaving mode 5. Peak shifting mode	
Anti-Theft	Gyroscope	

Performance Curve



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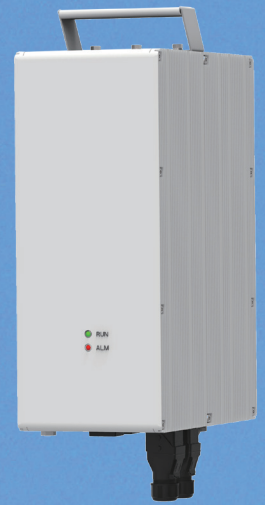
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EnerSmart
5G Micro Base Station Power Supply

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Rectifier module



Battery module

Features and Advantages



Integrated hardware

- The rectifier module integrates the functions of monitoring, power distribution and lightning protection
- The battery module integrates the functions of BMS, power distribution and lightning protection.



Diversified installation

- Easy installation for fast deployment
- Support of various installation scenarios such as pole mounting, wall mounting, etc.



Flexible combination

- Support of connection between rectifier module
- Support of connection between the rectifier and the lithium battery modules.



Simple operation

- Plug-and-play connector (error-proof design)
- No need of manual parameter setting



Convenient expansion

- Rectifier/battery modules online expansion supported



Intelligent management

- Support of local APP monitoring, zero onsite maintenance required
- Intelligent and precise power-off
- Sub-circuit electricity consumption measurement supported

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UN38.3

Rectifier Model		TP48V2K	TP48V3K
Rectifier Module System	Dimensions [W*D*H, mm]	300*78*430	
	Weight [kg]	≤ 9	
	Installation	Wall-mounting, pole-mounting, and angle-steel-tower-mounting	
	IP Grade	IP65	
	Efficiency	> 97%	
	Working Temperature [°C]	-40 to +55 (without direct sunlight)	
	Heat Dissipation	Natural dissipation	
Environment	Storage/Transportation Temperature [°C]	-40 to +70	
	Relative Humidity	5% to 95% RH (non-condensing)	
	Altitude [m]	≤ 4000 (-1°C/200m)	
AC Input	Input Voltage [V]	220 (single-phase)	
	Input Voltage Range [V]	90-300	
	Input PF	≥ 0.99	
	Input Frequency [Hz]	45-65	
	Input Current [A]	15	19
	AC Shock-Proof	≥ 20 kA, 8/20 μs	
DC Output	Output Power [W]	2000	3000
	Output Voltage [V]	-56.4	
	DC (Load) Output Current [A]	3×40A	
	DC Shock-Proof	≥ 10 kA, 8/20 μs	
	Battery By-Pass Current [A]	1 × 60A	
Communication	Local Monitoring	Bluetooth and mobile APP	
	Number of Dry Contact	3	
	Communication	RS485/CAN	
	Wireless Connection	4G/WIFI	
Battny Model		TP48V50-15S	
Battery System	Cell Type	LFP	
	Installation	Wall-mounting, pole-mounting and angle-steel-tower-mounting	
	IP Grade	IP65	
	Dimensions [W*D*H, mm]	300*170*420	
	Weight [kg]	≤ 30	
	Working Temperature [°C]	-40 to +55 (without direct sunlight)	
	Heat Dissipation	Natural cooling	
Electrical Parameters	Rated Voltage [V]	48	
	Rated Capacity [Ah]	50	
	Voltage Range [V]	42-53.5	
	Maximum Charging Current [A]	50 (current limitation : 10)	
	Maximum Discharge Current [A]	50	
	Parallel Connection	Up to 16 (auto-coding supported)	
	Communication	RS485*2	
	Protection	Over-voltage, under-voltage, short circuit, overload, over-current, over-temperature, low temperature protection, etc.	

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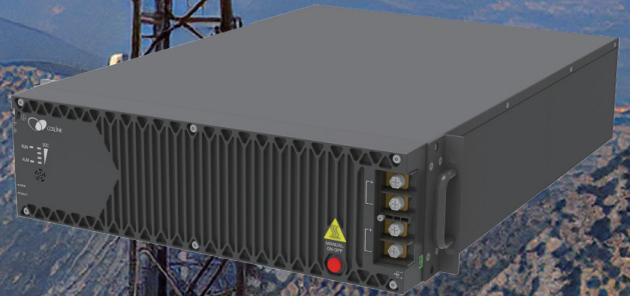
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EnerSmart
BS48V150 Li-ion Battery

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Features and Advantages



Smarter

- Smart active control technology
- Intelligent charge & discharge control
- Integrated BMS and high efficiency BDC optimizer



High performance

- Cycle life: **4000 times**
- Wide application temperature range
- Excellent current balancing performance
- Mixed use with lead-acid battery & conventional lithium batteries



Great safety

- Reliable LiFePO4 cells
- Multiple real-time warnings and protections
- Built-in pressure release valve



Compact and modular

- Standard 19" rack-mounted design (3U)
- Modular design



Certification compliant

- IEC62619, IEC62620, UN38.3, EN61000, UL1973



Smart management

- Local & remote monitoring
- Advanced working modes: peak shaving mode, peak shifting mode, etc.
- Precise calibration of SOC and SOH

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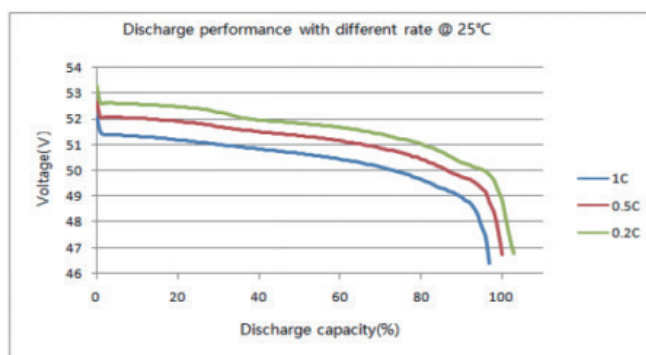
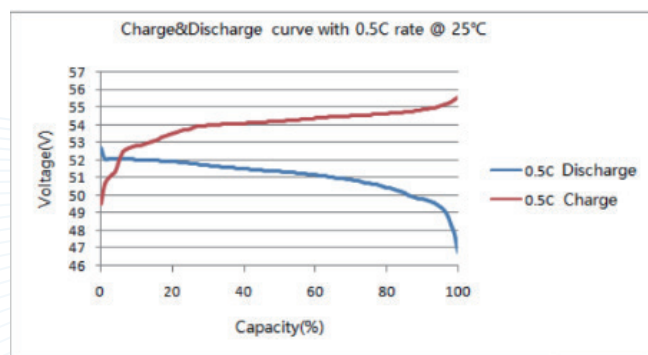
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UN38.3

Model	BS48V150
Battery Type	LFP
Rated Voltage [V]	48
Rated Capacity [Ah]	150Ah @0.5C, 25 °C
Dimensions [W*D*H, mm]	442*560*130.5
Rated Discharging Voltage [V]	52.8
Discharging Voltage Range [V]	40~58 (consistent voltage)
Output Power [W]	4800
Max. Continuous Discharging Current [A]	90/100
Weight [kg]	67
Cycle Life [Times]	4000 times (25°C, 0.5C, 80% DOD)
Communication	RS485 * 1, CAN * 1, and dry contact * 2
Parallel Connection	Up to 32 packs (CAN)/16 packs (RS485)
Balance Method	Passive balancing
Equalizing Current [mA]	100
Heat Dissipation	Natural cooling
Working Temperature [°C]	Charging: 0 ~ +55; discharging: -20 ~ +55
Storage Temperature [°C]	0~45
Relative Humidity	5%~95% RH (non-condensing)
Protection and Alarm	Overheat, over-current, short circuit, over-charging, over-discharging, etc.
Designed Life Time	15 years
Working Methods	1. Bus voltage following mode 2. Constant voltage output mode 3. Battery characteristic discharge output mode 4. Peak shaving mode 5. Peak shifting mode
Anti-Theft	Gyroscope

Performance Curve



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主控式储能技术引领者

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BMS

- 独创恒流限压均衡技术
Constant-current voltage-limit balancing
- 多维曲线标定SOC算法
Multi-directional curve SOC algorithm
- 自适应不同逆变器协议
Self-adaption to different inverter protocols

BDC

- 领先的磁集成与四开关切换 技术
Magnetic integration and four-switch technology
- 可与电池管理系统高度集成
Highly integrated with smart BMS
- 支持多机并联与自调节功能
Allow for multiple modules connected in parallel and self adjustment
- 覆盖储能全场景应用
Covering all ESS application scenarios

EMS

- 分布式本地与云平台同步处理
Simultaneous management through local monitoring and HY cloud
- 边缘计算让储能更智慧
Edge calculation to make ESS products smarter
- 低功耗、多CPU系统架构
Lower power consumption & multiple-CPU structure

CATL Cooperation

- CATL官方授权储能集成商
CATL Officially Authorized System Integrator



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Enabling Smart Power Supply for the World



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