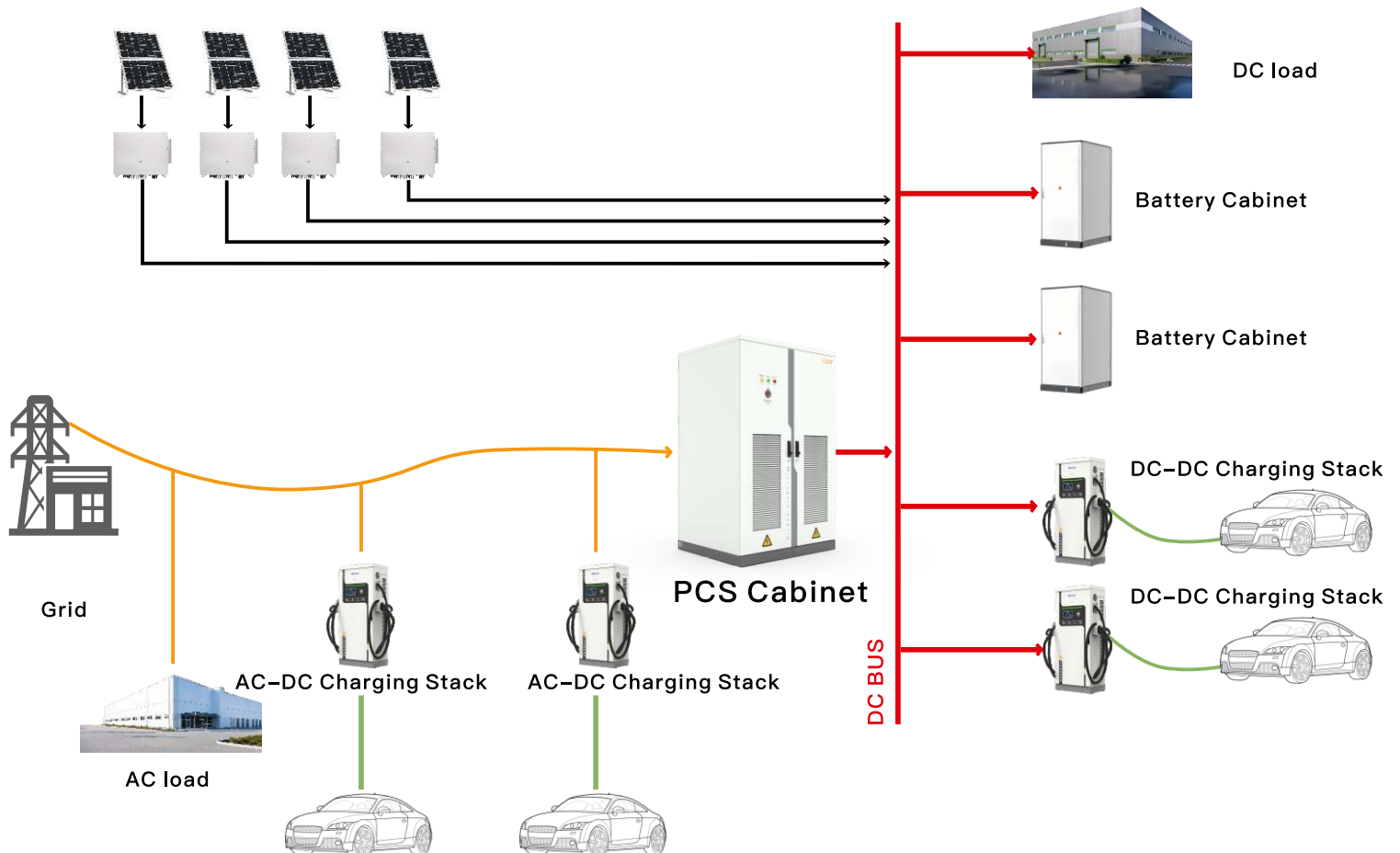




PV-ESS-EV Charger Solution



PV-ESS-EV Charger Solution





Product Line



40kW AC-DC High-Protection Charging Module



40kW/1000V Isolated DC/DC Charging Module



60-160kW All-in-one DC Charger



80-400kW Unidirectional DC/DC Charger



120kW-320kW MPPT Controller



250kW-1000kW PCS Inverter



Battery Cabinet
125kW/261kWh



All-in-one Charging Station —
Integrated PV / ESS / EV charger

UXR100040G

40kW/1000V Isolated AC/DC Charging Module



The UXR100040G fully-potted charging module meets IEC 61851-23:2023, featuring wide constant-power range, high power factor, power density & reliability, wide output voltage, low noise, low standby power consumption and excellent EMC performance.

+ Advantages

- High efficiency 96.5 %
- Fully potted protection
- Full load working during ultra-high temperature: 55 °C
- EMC Class B compliance

	Item	Specifications
Basic Specifications	Dimensions	85mm (H) x360 mm (W) x459mm (D)
	Weight	≤20kg
	Efficiency (full load)	≥96.3%
	Standby Power Consumption	Normal standby mode: 13W+/-0.5W;Super standby mode: < 2W@380Vac
	Cooling Mode	Fan cooling
	Communication Bus Protocol	CAN Bus
	No.of Parallel Modules	≤60 pcs
Input Characteristics	Indicator	Green: normal operation Yellow: alarm Red: fault
	Input Voltage	260Vac~530Vac,3P + PE
	Input Current	<80A
	Grid Frequency	45Hz~65Hz
	Power Factor	≥0.95(8kW≤ output power ≤20kW); ≥0.98(20kW≤ output power ≤40kW)
Output Characteristics	ITHD	≤5%
	Output Power	40kW@Output voltage 300Vdc
	Voltage Range	50Vdc ~ 1000Vdc, default value: 200Vdc
	Current Range	0A~133.3A
Electrical Isolation Method	Ripple Voltage Peak Value Coefficient	≤1%
	Electrical Isolation Method	High Frequency Isolation
Environmental Conditions	Operating Temperature	-40°C +75°C, output derating at above 55°C
	Storage Temperature	-40°C~+75°C
	Relative Humidity	≤95%RH, non-condensing
	Altitude	No derating2000m. When altitude 2000m,operating temperature decreases by 1°C forevery 100m. The actual altitude value needs tobe set @1000m
	MTBF	> 500,000 hrs

UXC100040

40kW/1000V Isolated DC/DC Charging Module



The UXC100040 is a high-power isolated unidirectional DC/DC charging module with ultra-wide input-output voltage & constant-power ranges, high protection and high efficiency. Typical applications include PV-storage-charging integrated stations, multi-vehicle DC charging stations, wind-solar MPPT, mobile robot charging, second-life battery utilization and mobile charging vehicles.

+ Advantages

- High efficiency 97.5 %
- Ultra-wide output voltage range: 50-1000 Vdc
- Adjustable MPPT Function

	Item	Specifications
Basic Specifications	Dimensions	85mm (H) x360 mm (W) x459mm (D)
	Weight	≤20kg
	Efficiency (full load)	≥97.5%
	Cooling Mode	Fan cooling
	Communication Bus Protocol	CAN Bus
	No.of Parallel Modules	≤60 pcs
	Indicator	Green: normal operation Yellow: alarm Red: fault
Input Characteristics	Input Voltage	40KW@400-850Vdc, DC input +PE
	Input Current	<110aA
	Input Constant Power Range	400Vdc-850Vdc
Output Characteristics	Output Power	40k
	Voltage Range	50Vdc ~ 1000Vdc
	Current Range	0A~133.3A
	Ripple Voltage Peak Value Coefficient	≤1%
Environmental Conditions	Operating Temperature	-40°C +75°C, output derating at above 50°C
	Storage Temperature	-40°C~+75°C
	Relative Humidity	≤95%RH, non-condensing
	Altitude	≤2000m
	MTBF	>500,000 hrs

MPPT Controller

Mercury-120K-PV / Mercury-250KP-PV/Mercury-320KP-PV



Mercury series product are high-efficiency IP66-rated MPPT controllers for DC-coupled PV-storage systems. Supporting multi-branches and multi-unit parallel expansion, they achieve peak efficiency of 99.4% with air-cooled & self-powered design. RS485/Ethernet interfaces enable easy monitoring for large-scale C&I energy-storage projects.

+ Advantages

- IP66 protection rating
- Supports multiple units in parallel
- Supports multiple MPPT channels for flexible multi-angle PV installation

	Mercury-120K-PV	Mercury-250KP-PV	Mercury-320KP-PV
Input parameters			
Maximum PV Array Voltage	≤ 900 V & ≤ V _{max} (battery backend)	≤ 1000V & ≤ V _{max} (battery backend)	≤ 1500V & ≤ V _{max} (battery backend)
MPPT Voltage Range	200V-900V	150V-1000V	500V-1450V
Full Load MPPT Voltage Range	560V-900V	470V-920V	900V-1266V
Maximum Branch Current	20A	36A	30A
Enter the number of PV branches	12	20	24
Number of MPPT	4	10	6
MPPT current per channel	55A	54A	60A
Output Parameters			
Voltage Range	600-950V	580-1000V	950-1500V
Rated Voltage	Default 716.8V, adjustable	Default 600V, adjustable	Default 1331.2V, adjustable
Rated Output Current	168A	417A	240A
Rated Output Power	120kW	250kW	320kW
Maximum Output Current	240A	450A	278A
System Parameters			
European Efficiency	99.4%	99.4%	99.3%
Protection Rating	IP66	IP66	IP66
Cooling method	Air-cooled	Air-cooled	Air-cooled
Dimensions (W*H*D)	610*257*480mm	830*650*340mm	900*620*340mm
Weight	30kg	70kg	60kg
Operating Temperature	-30~55°C	-30~55°C	-30~60°C
Standby Power Consumption	Self-powered, (no night power use)	15W	Self-powered, (no night power use)
Communication Interface	RS485	RS485/ETH	RS485

PCS Inverter

Neptune-P250/P500/P750/P1000

Product Description

PCS cabinet has a power range from 125kW to 1000kW. It can be used either independently for grid connection or off-grid applications, or in combination with photovoltaic MPPT cabinets and STS/ATS cabinets to build customized photovoltaic energy storage microgrid systems.

+ Advantages

- Supports DC-coupled with PV and battery DC coupling
- Supports battery cluster access to extend battery cycle life
- Modular design for easy maintenance
- IP54 design

+ Application Scenarios



Industrial Park



Commercial Building



Charging Station



Grid Ancillary Service



Data Center



	Neptune-P250	Neptune-P500	Neptune-P750	Neptune-P1000
DC(BAT input)				
DC Voltage Range	600-950V min 680V for off-grid			
Max Num. of Battery Input	2	4	6	8
Max charge/discharge current	216A*2	216A*4	216A*6	216A*8
Max charge/discharge power	125kW*2	125kW*4	125kW*6	125kW*8
AC(on-grid)				
Rated Output Apparent Power	250kVA	500kVA	750kVA	1000kVA
Rated Output Current	364A	728A	1092A	1456A
Max.Input Apparent Power	250kVA	500kVA	750kVA	1000kVA
Max.AC Input Current	364A	728A	1092A	1456A
Rated Voltage	400V	400V	400V	400V
AC Voltage Range	300-460V	300-460V	300-460V	300-460V
Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Frequency Range	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz
PF	>0.99 -0.8~0.8	>0.99 -0.8~0.8	>0.99 -0.8~0.8	>0.99 -0.8~0.8
THDi	<3%(@rated power)	<3%(@rated power)	<3%(@rated power)	<3%(@rated power)
AC connection	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
AC(off-grid)				
Rated Output Power	250kW(@Resistive load)	500kW(@Resistive load)	750kW(@Resistive load)	1000kW(@Resistive load)
Rated Output Voltage	400V	400V	400V	400V
Rated Output Current	364A	728A	1092A	1456A
Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
THDu	<3%(@linear load)	<3%(@linear load)	<3%(@linear load)	<3%(@linear load)
Overload capability	120%-1min	120%-1min	120%-1min	120%-1min
System data				
Build-in transformer	No			
IP level	IP54			
Cooling method	Intelligent air cooling			
Operating Temperature Range	(45~60°C derating, derating factor 5%/°C			
Storage Temperature Range	-40~70°C no condensation)			
Relative Humidity	0~95% no condensation)			
Noise	<75dB(A) @1m			
Maximum Operating Altitude	4000m derating above 3000m,derating factor 1%/100m			
AC Lightning protection	Type II			
BMS Communication	RS485/CAN			
Meter Communication	RS485			
Remote Communication	WLAN/4G/Ethernet			
Display	LED+LCD+APP			
Dimensions(W*D*H)	800*1100*2100mm	800*1100*2100mm	1450*1100*2100mm	1450*1100*2100mm
Weight	880kg	1000kg	1120kg	1240kg
Certificate				
IEC 62477-1 IEC 61000-6-2 IEC 61000-6-4 NRS 097-2-1				
Expand models				
Expand models	Neptune-P375		Neptune-P625/Neptune-P875	

60-160kW All-in-one High Protection DC Charger

Product Description

The 60-160kW All-in-one High-Protection DC Charger provides reliable, efficient EV charging. Featuring IP55 protection and an efficiency rating of up to 96%, it is fully compliant with global EV charging standards. The charger boasts a small footprint to reduce space requirements for compact parking areas and also offers an optional, more user-friendly connector management design.

+ Advantages

- Fully Potted Modules: Strong Protection & High Efficiency
- IP55 Rating + Efficient Cooling
- Smart Management & Silent Operation
- 300-1000V Wide Voltage & Constant Power
- Compact & User-Friendly

+ Application Scenarios



Commercial Complex



Smart City &
Transportation Sector



Energy Storage &
DC Microgrid System



Expressway Service
Area Charging Station



Residential &
Community



Item		Parameters		
Basic index				
Model	YLNKD60KE	YLNKD80KE	YLNKD120KE	YLNKD160KE
Rated power(kW)	60	80	120	160
Dimensions (W*D*H)	870x460x1600mm		870x460x1650nn	
Weight (KG)	≤220KG		≤270KG	
Charging outlet	CCS2+CCS2/CCS2+GBT,GBT+GBT, Length:5m			
HMI	10-inch color touch screen			
Energy meter	DC Meter			
CMS (Cable Management System)	Optional			
Installation	Ground nouted			
Payment				
Payment mode	RFID/Credit Card/Scan QR code/Auto Charge			
Input				
Voltage	400VAC±10%,3P+N+PE			
Frequency	46Hz-66Hz			
Current	91A	121A	182A	243A
Power factor	≥0.99			
ITHD	≤5%			
Output				
Voltage	200-1000Vdc			
Current	CCS2 250A rating. GB/T 250A rating.			
Power	CCS2 250A rating. GB/T 250A rating.	CCS2 250A rating. GB/T 250A rating.	CCS2 250A rating. GB/T 250A rating.	CCS2 250A rating. GB/T 250A rating.
Max efficiency	>96%			
Charging way	Meantime			
Environment				
Operating temperature	-30 ~ +50° C			
Hunidity	5%~95%RH, non-condensing			
Altitude	≤2000m no derating required;>2000m,the working temperature decreases by 1 ° C for every 100m rise			
Protection Grade	IP55			
Application Site	Indoor/Outdoor			
Cooling method	Fan cooling			
Standards &certifications				
EVSE	CCS2: PLC (DIN 70121: 2014-12 / ISO15118) GB/T:CAN(GB/T27930)			
Back-endprotocol	Ethernet, 4G, OCPP 1.6J/OCPP2.0			
Certification	CE			

80-400kW Unidirectional DC/DC Charger

Product Description

The YLNXD-series 80-400 kW integrated unidirectional DC/DC EV charging stations use 40kW isolated unidirectional DC/DC modules. Featuring high efficiency, reliability and flexible scalability, they lower operating costs, improve energy utilization, and fit PV-storage-charging integrated systems and DC microgrids for premium charging services.

+ Advantages

- Intelligent Charging Mode
- Convenient starting methods
- High-efficiency performance
- Universal compatibility
- Intelligent Management and Upgrades
- Safety and Reliability

+ Application Scenarios



Urban Bus Depot



Industrial Park DC
Power Supply System



Rural New-
Energy Microgrid



Data-Center
DC Microgrid



Logistics Park
Charging Center



Expressway Service
Area Charging Station



Large-scale Parking Lot
New-Energy
Charging Station



ItemParameters						
Basic Specifications						
Model	YLNXD80K02D	YLNXD120K02D	YLNXD160K02D	YLNXD240K02D	YLNXD320K02D	YLNXD400K02D
Rated power(kW)	80	120	160	240	320	400
Max number of plug	2					
Cooling method	Fan cooling					
HMI	7-inch color touch screen					
Back-end communication	Ethernet/4G					
Start-upmethod	RFID/VIN/Credit Card/Scan QR code/Manually(optional)					
Dimensions (W*D*H)	750x460x1600	750x460x1650		750x580x1750	750x550x1900	800x700x1900
Weigh (KG)	200	240	260	340	390	490
Input						
Voltage	750VDC(200-850VDC)					
Ratedcurrent	110A	165A	220A	330A	440A	550A
Output						
Ouput voltage	200Vdc ~ 1000VDC					
Constant power range	300Vdc ~ 1000VDC					
Max current for single plug	250A					
Max power of single plug	80kW	120kW	160kW	240kW	250kW	
Max efficiencx	≥97%					
Output voltage	≤±0.5%					
Output current	≤±1%					
Voltage stabilized accuracy	≤±0.5					
Current stabilized accuracy	≤±1					
Peak-peak ripple	≤±1					
ITHD	≤3					
Environment						
Operating temperature	-20 ~ +50 °C					
Storage temperature	-40 ~ +75 °C					
Operating environment	Indoor or outdoor （IP54）					
Humidity	5-95%RH, non-condensing					
Altitude	2000m no derating required;>2000m,the working temperature decreases by 1Cfor every100m rise					

ESS Series

YT125-261-L

Product Description

The YT125-261-L is a liquid-cooled, 261kWh battery cabinet for overseas C&I applications. It operates from -20°C to +55°C, supports up to 10 units in parallel, and is IEC62619/EN62477 certified—ideal for peak shaving and demand management.

+ Advantages

- Used in storage AC couple system
- Liquid cooling design, high efficiency and 8000 long life cycle
- Intelligent BMS, remote monitoring and fault diagnose
- Wide operating temperature range: -20°C~+50°C
- Compact & User-Friendly



YT125-261-L

Battery Parameters

Battery Chemistry	LiFePO4@GF
Total Capacity	261kWh
Nominal Capacity	314Ah
Nominal Voltage	832V
Operating Voltage Range	702V-936V
Rated Chg/Dsg Curr	157A
Operating Temp	-20°C~+55°C
Net Weight	≈2.5T
IP Grade	IP54
Dimension	1400*1000*2399mm
Cooling Mode	Liquid Cooling
Cycle	8000 Cycles

PCS Parameters

Rated Output Power	125kW
Max. AC Current	216A
Rated Operating Voltage	AC400V(50/60Hz)
Topology	3 Arms
AC Harmonic Voltage	<3%

Others

Parallel Qty	1~10 PCS/Stack
Applicable Scenarios	O-C&I
Certificate	IEC62619、IEC61000、EN62477、Rosh、Reach

All-in-one Charging Station

– Integrated PV / ESS / EV charger

+ Key-Feature

- Self-developed EMS – perfectly compatible
- Secure and user-friendly system architecture
- Photovoltaic direct drive –green and efficient
- High-reliability Battery System
- Smart Charging System
- High-performance PCS



technical specifications	YLBESCAC-CED 160K-120kW-241kWh
Basic Indicators	
Rated charge/discharge power for energy storage/charging	120kW/160kW
Battery capacity	241kWh
Cooling method	Intelligent Liquid Cooling
Weight	3.0t
Dimensions (Width*Height*Depth)	1600*1800*1400mm
Rated power	160kW
Number of guns	2
Heat dissipation method	Air Cooling
Backgroundcommunication	Ethernet/4G
Display method	7-inch Touch Screen
Startup method	QR Code/VIN/Plug and Charge/Card/Manual
Input voltage	200~1000VDC (Rated 750VDC)
Input current	0~250A
Input constant power range	200~1000VDC
Output voltage range	200V~1000VDC (Constant Power Voltage Range:300V~1000VDC)
Maximum current per gun	250A
Maximum power per gun	160kW
Peak efficiency	≥97%
Output voltage error	≤±0.5%
Output current error	≥30A,≤±1%; <30A,≤±0.3A

Technical specifications		YLBESCAC-CED 160K-120kW-241kWh
Charging System		
Output ripple peak-to-peak value		≤±1%
Output current sharing imbalance		≤3%
PV DCDC Module		
Rated output power		60kW
PV Input Side		
Rated voltage		350VDC
Maximum voltage		1000VDC
Voltage range		150V~1000VDC
Full power voltage range		340V~1000VDC
Rated current		4 Channels*45A
DC Output side		
Rated voltage		750VDC
Rated current		421A
Maximum voltage		1000VDC
Voltage range		350V-1000VDC
Full power voltage range		680V-850VDC
Battery		
Cell type		LiMnFePO ₄ 3.2V/314Ah
Battery pack parameters		48.23kWh/1P48S
Battery system configuration		1P240S
Battery system capacity		241kWh
Battery rated voltage		768VDC
Battery voltage range		672~864VDC
Charge/discharge rate		0.5C
Charge/discharge cycle life		> 8000 cycles (25°C 0.5C charge/discharge 70% SOH)
Battery cooling method		Air Cooling
PCS		
Rated power		120kW
Maximum power		132kW (10min) 144kW (1min)
Rated voltage		3*230V/400V
Allowable grid voltage range		400V±15%
Rated grid frequency		50/60Hz
Frequency range		47Hz 52Hz/56Hz 62Hz
Total harmonic distortion of current		<3% (at rated power)
DC component		<0.5% of output rated current
Connection method		3P+N+PE
Power factor		>0.99
Power factor range		1 (leading)--1 (lagging)
Off-grid operation support		Supported
Efficiency		
PCS maximum efficiency		98.9%
Charging peak efficiency		>97%
System maximum efficiency		≥88%
Protection		
DC input reverse polarity protection		Available
AC input reverse polarity adaptation		Available
Insulation resistance detection		Available
AC overcurrent protection		Available
AC overvoltage protection		Available
AC short circuit protection		Available
Grid side surge protection		Available
Automatic switchover for grid anomalies		Available
Low voltage ride through		Available
High voltage ride through		Available
Communication and Human-Machine Interaction		
Communication interface		RS232/RS485/WiFi/4G/Ethernet
Human-machine interaction		Touchscreen/Indicator Light/APP
Environmental Indicators		
Protection level		IP54
Noise		< 75dB
Operating temperature		-25°C~+50°C (derating above 40°C)
Storage temperature		-25°C~+55°C
Relative humidity		5%~95% non-condensing
Fire protection solution		Perfluorohexanone
Operating altitude		≤4000m (derating required above 2000m)

Powering a Smarter Energy Future

PV – ESS – EV Charger Solution

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