

EV Charging Solutions



ZHEJIANG BENYI ELECTRICAL CO., LTD.

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Best DC Switch In The World

www.beny.com

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If the models and specification in this product catalogue is changed due to the change of products, we will not inform.



Best DC Switch In The World

Council Australia.

solar PV industry.

Mission:

Value:

Faith:

Quality policy:



R&D Manufacturer of EVCharger and Charging Module 8228 Manufacturer of HVDC System 8 Overall Solution Provider of EV Charging Station

Achieve higher profits for 700+ charging operators

International communication protocol

Pioneer of Energy Storage Industry

(b)The total annual charging capacity have reached 160,000,000 + $kW \cdot h$

ZHEJIANG BENYI ELECTRICAL CO.,LTD.

COMPANY INTRODUCTION

- **ZIBENY** is top 1 DC switch brand in solar PV industry.
- The first DC switch listed by UL508i in China.
- The first DC isolator in full range complies with AS60947.3:2018DCPv2.
- Recommend to solar PV installers by top inverter companies worldwide and Clean Energy
- we are developing true DC components at 1000V 1500v, supplying DC string level safety to
- Making Solar PV Power System More Reliable and Safe
- Honesty, Responsibility, Innovation
- People-oriented, creating value; Scientific management, keeping developing
- Create the Best Products and Superb
- Servicesocial Responsibility:
- Devote us to improve the quality of life of the workforce and their families as well as the local community and society atlarge and to behave ethically in business and contribute toeconomic development.

Time and power saving, High safety



Time-saving

Power saving High conversion efficiency and low standby power consumption High Safety Dual protection to both manual operation and vehicles

\bigcirc	Harsh environment	>>	Excellent performance UXR module
1	Charging effciency	>>	Full load charging eff UXRmodule
()	Standby energy saving	>>	Low standby power c
\odot	Applicable to all types of vehicles	>>	Output power 100-10
¢	Application scenarios	>>	It is compatible with scenarios
Ś	Efficient and stable heat dissipation	>>	Unique air duct desig high heat dissipation
	Simple structure and layout	>>	Simple and elegant s small size, small occ
\bigotimes	Waterproof and dustproof	>>	Electrical and air duc design,high density d
	UI customization	>>	Customized appearan
(VIN intelligent recognition	>>	VIN identification ens
* *	Flexible power distribution	>>	The power can be fle demand.
	Excellent noise reduction	>>	Folding air conditionir reduction

CORE ADVANTAGES

at hightemperature with wide constant power range by using

ciency is higher than most others in the industry by using

onsumption, reducing operating costs

00V, applicable to all types of electric vehicles

he design of DC charging module and has awider application

n, small impedance, strong compression capacity, efficiency, stable and reliable

ructure layout,strong and weak AC-DC separation, pation of space

are completely isolated,physical structure of waterproof ist net

ce

ires intelligent charging.

xibly dispatched according to the needs of each terminal's

g segmentation design, greatly increase the area of noise

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PRODUCT INTRODUCTION

UX120kW DC Fast Charger (CCS2&CHAdeMO)

07/08

UX160kW DC Fast Charger

09/10



UX120kW DC Fast Charger (CCS2&CHAdeMO)

Product description

Designed for the European market, this product has more powerful data calculation and processing capacity, smarter dispatching strategy, better heat dissipation performance and lower noise, and fully meets the requirements of high-power DC charging of vehicles with European and Japanese standard DC interface.

The product has multiple protection design and active protective function, which can monitor all communication data in the charging process and give early warning to all kinds of abnormal charging to ensure the safety of users and vehicles.



Application Scenarios



	Item	
Basic indi	cators	
	Rated power	120kW
	Model	YLUXD120KE
	Cable current	CCS 2: 200A
	Heat-dissipating method	Forced air cooling
	Network type	Ethernet/4G
	Operating environment	Indoor or outdoor (IP54)
	HMI	10.1-inch screen for strear
	Dimensions (WxDxH)	800mm x 610mm x 1880m
	Weight (kg)	330
Communio	cation	
	Communication mode	PLC (DIN 70121: 2014-12
	Communication protocol	OCPP 1.6 / OCPP 2.0
Method of	payment	
	Method of payment	Credit card, UnionPay card
Input char	acteristics	
	Input voltage	400VAC±10%,three-phase
	Frequency	50±1Hz
	Rated input current	193A
	Power factor	≥0.99
	ITHD	≪5%
Output cha	aracteristics	
	Voltage range	100-1000VDC
		(Constant power rangesou
	Maximum current	200A
	Maximum output power	120kW
	Charging strategy	Round charging and even
	Peak efficiency	≥95%
	Output voltage error	≤±0.5%
	Output current error	≥30A,≤±1%;<30A,≤±0
	Voltage stabilized accuracy	≪±0.5%
	Current stabilized accuracy	≤±1%
	Ripple voltage peak value coefficent	≤±1%
Environme	ental indicators	
	Operating temperature	-25 ~+50°C
	Storage temperature	-40 ~+80°C
	Relative humidity	5~90%RH,non-condensing
	Operational altitude	2000m No derating require temperature decreases by

SPECIFICATIONS

	Parameters
CH	AdeMO: 125A
.)	
eaming media	
30mm	
-12/ ISO15118)	
ard WeChat Aliney Ma	pard (customizable)
ase+N+PE	
300-1000VDC)	100-500VDC (Constant power range300-500VDC)
	(
en charging	
≦±0.3A	
sing	
uired >2000m,the working	
by 1 ° C for every 100m r	ise

PAGE **07/08**

UX160kW DC Fast Charger

Product description

Designed for the Chinese market, this product has more powerful data calculation and processing capacity, more intelligent and reasonable distribution strategy, better heat dissipation performance and lower noise performance, and fully meets the requirements of high-power DC charging of vehicles with Chinese standard.

The product has multiple protection design and active protection function, which can monitor all communication data status in the charging process and give early warning to all kinds of abnormal charging and data to ensure the safety of users and vehicles.



Application Scenarios



Item	Parameters
Basic indicators	
Rated power	160kW
Model	YLUXD120KE
Cable current	2(250A)
Heat-dissipating method	Forced air cooling
Network type	Ethernet/4G
Operating environment	Indoor or outdoor (IP54)
HMI	10.1-inch screen for streaming media
Dimensions (WxDxH)	800mm x 610mm x 1880mm
Weight (kg)	330
Input characteristics	
Input voltage	380VAC±15%,three-phase+N+PE
Frequency	50±1Hz
Rated input current	258A
Power factor	≥0.99
ITHD	\leqslant 5%
Output characteristics	
Voltage range	100-1000VDC
	(Constant power range300-1000VDC)
Maximum current	Aplug: 250A Bplug: 250A
Charging strategy	80kW+80kW(40kW+40kW+40kW)
Peak efficiency	≥95%
Output voltage error	≤±0.5%
Output current error	≥30A,≤±1%;<30A,≤±0.3A
Voltage stabilized accuracy	≤±0.5%
Current stabilized accuracy	≤±1%
Ripple voltage peak value coefficent	≤±1%
Environmental indicators	
Operating temperature	-25 ~+50°C
Storage temperature	-40 ~+80°C
Relative humidity	5~90%RH,non-condensing
Operational altitude	2000m No derating required >2000m,the working temperature decreases by 1 ° C for every 100m rise

SPECIFICATIONS

NX Charging station

Product description

This product contains a touch screen, a card reader, a power metering module, a charging module, a communication module, a charging interface, a control module, and a pile shell. The charging cable supports multiple protection functions, with dual input and output safety protection measures.

The user-friendly interface display, control, and guidance functions allow customers to conveniently complete the charging process. Various communication interfaces are provided to support real-time communication with the monitoring center and real-time charging monitoring.



Application Scenarios



	Item	
Basic indicato	ors	
Ra	ated power	60kW
Mo	odel	YLCED60K
Ca	able current	2(250)
He	eat-dissipating method	Forced air cooling
Ne	etwork type	Ethernet/4G
Op	perating environment	Indoor or outdoor(IP54)
Di	mensions (WxDxH)	700mmx400mmx1600mm
We	eight (kg)	190
Input characte	eristics	
Inp	put voltage	380VAC±15%, three-phase
Fre	equency	45Hz-65Hz
Ra	ated input current	97A
Po	ower factor	≥0.99
ITI	HD	≪5%
Output charac	teristics	
Vo	ltage range	100-750VDC
Ma	aximum current	Aplug: 150A Bplug: 150A
Ch	narging strategy	40kW+20kW
Pe	eak efficiency	95%
Οι	utput voltage error	≤±0.5%
Οι	utput current error	≥30A,≤±1%;<30A,≤±0
Vo	Itage stabilized accuracy	≤±0.5%
Cu	urrent stabilized accuracy	≤±1%
Rij	pple voltage peak value coefficent	≤±1%
Environmenta	l indicators	
Op	perating temperature	-25 ~+50°C
Ste	orage temperature	-40 ~+80°C
Re	elative humidity	5~90%RH,non-condensing
Ορ	perational altitude	2000m No derating require temperature decreases by

SPECIFICATIONS

		Parameters	
	80kW	120kW	160kW
	YLCED80K	YLCED120K	YLCED160K
)			
mm		700mmx450mmx1700m	m
	220	240	280
has	e+N+PE		
	129A	194A	259A
	Aplug: 200A	Aplug: 150A	Aplug: 200A
	Bplug: 200A	Bplug: 150A	Bpiug: 200A
	40kW+40kW	60kW+60kW	80kW+80kW
		(+UKVV+2UKVV+2UKVV+4UKW)	(+UKVV+4UKVV+4UKVV)
≤±0).3A		
_			
sing	9		
quire	ed >2000m,the working	20	
s by		50	

NX Charging station

Product description

This product contains a touch screen, a card reader, a power metering module, a charging module, a communication module, a charging interface, a control module, and a pile shell. The charging cable supports multiple protection functions, with dual input and output safety protection measures.

The user-friendly interface display, control, and guidance functions allow customers to conveniently complete the charging process. Various communication interfaces are provided to support real-time communication with the monitoring center and real-time charging monitoring.



Application Scenarios



Item	Parameters		
Basic indicators			
Rated power	160kW	240kW	400kW
Model	YLCED160K	YLCED240K	YLCED400K
Cable current	2(250A)		
Heat-dissipating method	Forced air cooling		
Network type	Ethernet/4G		
Operating environment	Indoor or outdoor(IP54)		
Dimensions (WxDxH)	800mmx550mmx850mm	800mmx650mmx1850mm	800mmx780mmx1850mm
Weight (kg)	320	380	530
nput characteristics			
Input voltage	380VAC±15%,three-phase+N+PE		
Frequency	45Hz-65Hz		
Rated input current	259A	388A	644A
Power factor	≥0.99		
ITHD	≪5%		
Dutput characteristics			
Voltage range	100-1000VDC		
Maximum current	Aplug: 250A Bplug: 250A	Aplug: 250A Bplug: 250A	Aplug: 250A Bplug: 250A
Charging strategy	80kW+80kW	120kW+120kW	200kW+200kW
Peak efficiency	95%		
Output voltage error	≤±0.5%		
Output current error	\geqslant 30A, \leqslant ±1%;<30A, \leqslant ±0.3A		
Voltage stabilized accuracy	≤±0.5%		
Current stabilized accuracy	≤±1%		
Ripple voltage peak value coefficent	≤±1%		
Environmental indicators			
Operating temperature	-20 ~+50°C		
Storage temperature	-40 ~+80°C		
Relative humidity	5~90%RH, non-condensing		
Operational altitude 2000m No derating required >2000m, the working temperature decreases by 1 ° C for every 100m rise			

SPECIFICATIONS

360-480kW DC Fast Charging Output



Application Scenarios

Taxi,online-hailing cars	Bus	Public charging station	Residence community
Customized shuttle bus	Freight vehicles	Enterprises and institutions	Commercial complex

Item	
Basic indicators	
Rated power	360kW
Model	YLCED360K
Heat-dissipating method	Forced air cooling
Network type	Ethernet/4G
Operating environment	Indoor or outdoor(IP54)
Dimensions (WxDxH)	800mmx550mmx850mm
Weight (kg)	Size of host machine: 1200r Size of terminal: 450mm x 2 (Same size for single and do
Weight (kg)	Host machine: 590 Terminal: 100(double plu
Input characteristics	
Input voltage	380VAC±15%,three-pha
Frequency	45Hz-65Hz
Rated input current	582A
Power factor	≥0.99
ITHD	≪5%
Output characteristics	
Voltage range	100-1000VDC
Output voltage error	95%
Output current error	≤±0.5%
Voltage stabilized accuracy	≥30A,≤±1%;<30A,≤
Current stabilized accuracy	≤±0.5%
Ripple voltage peak value coefficent	≪±1%
Output voltage error	≪±1%
Maximum number of access terminals	(double plug terminal:3)
Power dispatching strategy	1.A total of 9 40kW modules are u adopting a flexible power strategy of 40kW+80kW+40kW+80kW+40 2. It can connect up to 3 double-pl terminals, totally 6 charging plugs sent to any charging plug; 3.When 6 plugs are charged at th is: 40kW+80kW+40kW+80kW+40 of each plug is: 40kW/80kW/120k
Environmental indicators	
Operating temperature	-20 ~+50°C

Operating temperature	-20 ~+50°C	
Storage temperature	-40 ~+80°C	
Relative humidity	5~90%RH, non-condens	
Operational altitude	2000m No derating requ temperature decreases l	

SPECIFICATIONS

	Parameters
	480kW
	YLCED480K
m x 900mm x 1950mm 0mm x 1500mm ble plugs)	Size of host machine: 1200mm x 900mm x 1950mm Size of terminal: 450mm x 200mm x 1500mm (Same size for single and double plugs)
gs), 80(single plugs)	Host machine: 900 Terminal: 100(double plugs), 80(single plugs)
e+N+PE	
	773A
0.3A	
r (single plug terminal:6)	(double plug terminal:4) or (single plug terminal:8)
ed and divided into 6 groups,	1.A total of 12 40kW modules are used and divided into 8 groups,
V+80kW";	40kW+80kW+40kW+80kW+40kW+80kW+40kW+80kW;
terminals or 6 single-plug "he output of each module can be	2.It can connect up to 4 double-plug terminals or 8 single-plug terminals, totally 8 charging plugs; The output of each module can be
same time, the power distribution	sent to any charging plug; 3.When 8 plugs are charged at the same time, the power distribution is:
V+80kW;The output power range /160kW/200kW/240kW;	40kW+80kW+40kW+80kW+40kW+80kW+40kW+80kW; The output power range of each plug is:
	40kW/80kW/120kW/160kW/200kW/240kW;
ng	
red >2000m, the working	

by 1 ° C for every 100m rise