



Energy Solutions

For residential and light commercial customers



Introduction

Our ambition is
to use energy
solutions from
renewables
**to help the
public and
private sector
achieve their net
zero ambitions**





Solar Panels with 40 -540W Capacity

FOR RESIDENTIAL AND
COMMERCIAL USE

Distributed solar PV, such as rooftop solar on buildings, is also set for faster growth because of higher retail electricity prices and growing policy support.

Technical Capacity

Power	40W	50W	60W	80W	100W
Handover Rate	17.50%	18.60%	18.30%	19.10%	19.30%
Size(mm)	570*400*25	670*400*25	430*760*30	550*760*30	680*760*30
Cell Size(mm)	182*30.3	182*36.4	182*45.5	182*60.6/30.3	182*76/36.4
Cells quantity	32pcs (2*16)	32pcs (2*16)	32pcs (4*8)	32pcs (4*8)/(2*16)	32pcs (4*8)/(2*16)
Operating Voltage	18.24V	18.24V	18.24V	18.24V	18.24V
Working Current	2.19A	2.74A	3.29A	4.39A	5.48A
Operating Temperature	-45°C~+85°C				
IP Grade	IP67				
Gross Weight (Kg)	2.8	3.8	4.3	5.3	6.3
Warranty	5 years	5 years	5 years	5 years	5 years

Power	120W	160W	200W	240W	300W
Handover Rate	19.70%	20.20%	20.40%	20.70%	20.50%
Size(mm)	800*760*30	1040*760*30	1290*760*30	1530*760*35	1290*1134*35
Cell Size(mm)	182*91/45.5	182*121.2/60.3	182*151.7/76	182*182/91	182*121.2/60.6
Cells quantity	32pcs (4*8)/(2*16)	32pcs (4*8)/(2*16)	32pcs (4*8)/(2*16)	32pcs (4*8)/(2*16)	60pcs (6*10)/(6*20)
Operating Voltage	18.24V	18.24V	18.24V	18.24V	34.2V
Working Current	6.58A	8.77A	10.96A	10.96A	8.77A
Operating Temperature	-45°C~+85°C	-45°C~+85°C	-45°C~+85°C	-45°C~+85°C	-45°C~+85°C
IP Grade	IP67	IP67	IP67	IP67	IP67
Gross Weight(Kg)	7.3	8.3	10.3	11.8	14.3
Warranty	5 years	5 years	5 years	5 years	5 years

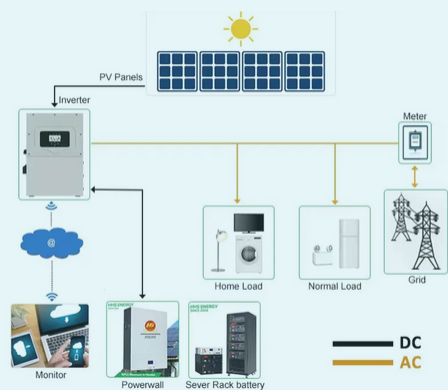
Power	360W	400W	450W
Handover Rate	20.60%	20.70%	20.80%
Size(mm)	1540*1134*35	1724*1134*35	1909*1134*35
Cell Size(mm)	182*145.6	182*182	182*182
Cells quantity	60pcs (6*10)	54pcs (6*9)	60pcs (6*10)
Operating Voltage	34.2V	30.78V	34.2V
Working Current	10.53A	13A	13.16A
Operating Temperature	-45°C~+85°C	-45°C~+85°C	-45°C~+85°C
IP Grade	IP67	IP67	IP67
Gross Weight(Kg)	18.8	21.3	22.9
Warranty	5 years	5 years	5 years



Energy Storage Units with 10KW Capacity

FOR RESIDENTIAL AND COMMERCIAL USE

Energy Storage System



Technical Capacity

8KW Hybrid Solar Power System Components List			
Item	Model	Description	Quantity
1	Solar Panel	Mono Shingled 440W Solar Panel	20pcs
2	Combiner Box	Optional	1 pc
3	Lithium Battery	20Kwh	1 set
4	Hybrid Inverter	8kva	1 pc
5	Mounting Support	Roof/Ground	1 set
6	Cable	4mm² PV cable	100m
7	Connector	Solar Connector	8 pairs
8	Tools Bag	Solar Installation tools	1 set

10KW Hybrid Solar Power System Components List			
Item	Model	Description	Quantity
1	Solar Panel	Mono Shingled 440W Solar Panel	24pcs
2	Combiner Box	Optional	1 pc
3	Lithium Battery	30Kwh	1 set
4	Hybrid Inverter	10kva	1 pc
5	Mounting Support	Roof/Ground	1 set
6	Cable	4mm² PV cable	100m
7	Connector	Solar Connector	12 pairs
8	Tools Bag	Solar Installation tools	1 set

12KW Hybrid Solar Power System Components List			
Item	Model	Description	Quantity
1	Solar Panel	Mono Shingled 440W Solar Panel	28pcs
2	Combiner Box	Optional	1 pc
3	Lithium Battery	40Kwh	1 set
4	Hybrid Inverter	12kva	1 pc
5	Mounting Support	Roof/Ground	1 set
6	Cable	4mm² PV cable	200m
7	Connector	Solar Connector	16 pairs
8	Tools Bag	Solar Installation tools	1 set

15KW Hybrid Solar Power System Components List			
Item	Model	Description	Quantity
1	Solar Panel	Mono Shingled 440W Solar Panel	36pcs
2	Combiner Box	Optional	1 pc
3	Lithium Battery	50Kwh	1 set
4	Hybrid Inverter	15kva	1 pc
5	Mounting Support	Roof/Ground	1 set
6	Cable	4mm² PV cable	200m
7	Connector	Solar Connector	20 pairs
8	Tools Bag	Solar Installation tools	1 set



EV Chargers with 40-80 KW capacity

FOR RESIDENTIAL AND COMMERCIAL
USE



Technical Capacity

Models	BDC-S40	BDC-S60	BDC-S80
Connectors	CCS2		
Number of plugs	1		
DC output power	40KW	60KW	80KW
AC input voltage	AC380V±15%		
AC input frequency	45-65Hz		
DC output voltage range	DC50-750V	DC50-1000V	DC50-750V
DC output current	single connector 100A/ double connector 50A	single connector 200A/ double connector 100A	
Cable length	Standard 5m(customizable)		
Efficiency	≥95%		
Noise emission	≤65dB		
IP Rating	IP54		
Warranty	12 Months		
Enclosure Protection	IK10		
Standard	IEC/EN 61851, IEC/EN 62196, ISO-15118, DIN 70121		
Communication Protocol	OCPP 1.6J		
Status indication	15 inch LCD screen/LED light		
Connectivity Authorization	RFID/NFC, App, VIN		
Network connection	4G/Ethernet		
Electrical protections	Under voltage, Over voltage, Short circuit, Over current, Leakage Protection, Over temperature, Emergency stop, Surge protection, Insulation detection		
Cooling method	Air cooling		
Operating temperature	-25°C~+55°C		
Storage temperature	-40°C~+80°C		
Operating humidity	5%-90% non-condensing		
Maximum installation height	2000m		
Dimension (W x H x D)	450 × 760 × 235mm		

Models	BDC-S120	BDC-S160	BDC-S240
Connectors	CCS2		
Number of plugs	1		
DC output power	120KW	160KW	240KW
AC input voltage	AC380V±15%		
AC input frequency	45-65Hz		
DC output voltage range	DC50-1000V		
DC output current	single connector 200A/ double connector 200A		
Cable length	Standard 5m(customizable)		
Efficiency	≥95%		
Noise emission	≤65dB		
IP Rating	IP54		
Warranty	12 Months		
Enclosure Protection	IK10		
Standard	IEC/EN 61851, IEC/EN 62196, ISO-15118, DIN 70121		
Communication Protocol	OCPP 1.6J		
Status indication	15 inch LCD screen/LED light		
Connectivity Authorization	RFID/NFC, App, VIN		
Network connection	4G/Ethernet		
Electrical protections	Under voltage, Over voltage, Short circuit, Over current, Leakage Protection, Over temperature, Emergency stop, Surge protection, Insulation detection		
Cooling method	Air cooling		
Operating temperature	-25°C~+55°C		
Storage temperature	-40°C~+80°C		
Operating humidity	5%-90% non-condensing		
Maximum installation height	2000m		
Dimension (W x H x D)	450 × 760 × 235mm		



Wind Turbines up to 100KW capacity

WIND POWER OF RESIDENTIAL AND COMMERCIAL CUSTOMERS.

Technical Capacity

Model	L1000	L1500	L2000	L3000	G5000	G7500	G10K
Rated power	1kw	1.5kw	2kw	3kw	5kw	7.5kw	10kw
Rated voltage	48V/96V/120V/220V/240V				120V/220V/240V/380V		
Start-up wind speed	2m/s				2.5m/s		
Rated wind speed	11m/s						
Safe wind speed	≤50m/s						
Blade diameter	2.6m	2.8m	3.1/3.2 m	4.1m	5.4m	5.8m	6.5m
Blade number	3 pcs						
Blade material	Reinforced FRP						
Fuselage material	Reinforced die-cast aluminum				Reinforced die-cast aluminum+steel		
Magnetic steel material	NdFeB						
Generator type	Three-phase AC permanent magnet synchronous generator						
Control mode	Electromagnetic brakes						
Wind direction adjustment	Automatically adjusts the windward angle						
Service life	≥ 20 years						
Protection grade	IP54						
Net weight	48kg	53kg	58kg	95kg	285kg	295kg	215kg
Gross weight	52kg	57kg	62kg	110kg	315kg	325kg	245kg
Packing size (cm)	67*48* 26+130 *27*27	67*48* 26+147 *27*27	67*48* 26+162 *27*27	75*37*37+ 200*23*3 2 +74*52*5	90*52*45 + 300*42*4 4 +116*87*5	95*55*61+ 285*33*3 7 +94*42*2 8	90*52*45 + 230*30*3 8 +48*48*5 0