DARANENER

Power Station Solution Supplier

Daran Story

Shenzhen Daran New Energy Technology Co., Ltd. is a subsidiary of Dongguan Mentech Optical & Magnetic Co., Ltd. (Stock code: 002902) Daran specializes in the R&D as well as the sales of cutting-edge energy storage solutions. In parallel, Mentech excels in production and efficient supply chain management. Together, we offer a comprehensive range of high-quality products,with a primary focus on portable power stations, solar panels, and innovative solar energy solutions.

We take pride in being your royal designer in crafting premium power station products that redefine convenience and sustainability!

2008
Dongguan Mentech Optical & Magnetic Co., Ltd. Established

2009
Optical BU

2010
Qualified by Huawei
ISO9001:2008

2011
Granted National Hi-Tech Enterprise Award
Energy Equipment BU founded

2012
TL9000
The fifth batch of listed back-up company in Dongguan City

2013
Top 100 Electronic Components Manufacturer in China
Guangdong Innovative Enterprise

2014
Shenzhen R&D Center founded
Industrial Facility Operational
Offices in San Jose & Austin, USA

2015
Consumer Power Supply BU founded
Dongguan Key Enterprises
Revenue tops $200M

2016
Mentech Biyang Guangdong Engineering Technology R&D Center
Dongguan Patent Gold Award

2017
Mentech IPO Shenzhen Stock Exchange
Top 500 Manufacturing Company in Guangdong

2018
Acquisition of ZhuHai Pegasus Optoelectronics
Mentech Shenzhen National Intellectual Property Benchmark Enterprise

2019
Wuhan R&D Center
Mentech USA
Mingtong Precision Electronics Founded
Mencuang Smart Device Founded
National Intellectual Property Benchmark Enterprise
Mentech Vietnam

2020
Acquisition of Shenzhen Yuxuan Electronics
Passed CNAS certification
Guangdong Ph.D. Workstation

2021
Shenzhen Daran New Energy Technology Co.,Ltd established
Zeedoo Digital Founded
Zero Carbon Intelligent Energy System Founded
Mentech Industry Founded
Mentech Easy Buy Founded

A-Share Listed Company

Mentech Headquarter was successfully listed in September 2017 （Code: 002902）
Mentech Subsidiary-Daran New Energy Technology Co., Ltd. was established in 2021

7000m²+

The manufacturing base covers Dongguan, Biyang, Jiangxi, Vietnam and other places.

Manufacturing Capacity

With the most advanced production line and large-scale intelligent aging workshop in China
Self-produced core components Monthly capacity 50,000 units, annual capacity 600,000 units, doubling the capacity to 1.2 million units within one year

Honors&Qualifications

ISO9001:2015,

ISO14001:2015,

ISO45001:2018,

UL-CA-2004926-0

ISO/IEC27001:2013

ANSI/ESDS20.20:2014

IATF169492016:

IL9000-H-R6.2/5.7

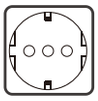
GB/T29490:2013

GB/T23001:2017

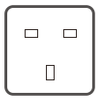
NEW Release

- Super fast charging
- Compact but powerful
- Safe LiFePO4 battery
- Easy to take for travel
- Cycle life: ≥3000 times

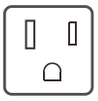
AC Outlet Option

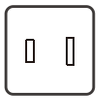

EU:230V 50Hz

AU:230V 50Hz


UK:230V 50Hz

CN:220V 50Hz


US:120V 50Hz


JP: 100V 50Hz/60Hz

SA:230V 50Hz

NEO-Z

Material	ABS+PC	
Battery	179.2Wh(LiFePO4)	
Size&Weight	L220mm W180mm H130mm & 2.75kg	
Input	DC Input(Solar)	DC5521 10-30V (Max. 90W)
	AC Input	100V-120V 50/60Hz (Max. 120W) (Global Version 220V-240V)
Output	AC Output: 300W (Surge 600W)	
	USB-C Output: 5V⎓3A/9V⎓3A/12V⎓3A/20V⎓3A (Max 60W)	
	2*USB-A Output: 5V⎓3A/9V⎓2A/12V⎓1.5A(Max 18W)	
	DC5521 Output: DC5521 12V⎓3A (Max. 36W)	

LED Lights	50%/100%/SOS/Strobe Modes

AC Outlet Option

EU:230V 50Hz | AU:230V 50Hz | UK:230V 50Hz | CN:220V 50Hz | US:120V 50Hz | JP: 100V 50Hz/60Hz | SA:230V 50Hz

NEO-X

Material	ABS+PC	
Battery	204.8Wh (LiFePO4)	
Size&Weight	L213.5mm W134mm H189mm & 3.5kg	
Input	DC Input (Solar)	DC5521 10-28V (Max. 100W)
	AC Input	100V-120V 50/60Hz (Max. 150W) (Global Version 220V-240V)
Output	AC Output: 300W (Surge 600W)	
	USB-C1: 5V⎓3.6A/9V⎓2.5A/12V⎓2.5A (Max. 30W)	
	USB-C2: 5V⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	USB-A: 5V⎓3.6A/9V⎓2.5A/12V⎓2.5A (Max. 30W)	
	DC Output: DC5521x2 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED Lights	50%/100%/SOS/Strobe Modes	

NEO-S

Material	ABS+PC	
Battery	345.6Wh/307.2Wh/299Wh (LiFePO4)	
Size&Weight	L245 x W154 x H205(mm) & 4.5kg	
Input	DC Input (Solar)	DC5521 10-28V (Max. 100W)
	AC Input	100V-120V 50/60Hz (Max. 550W) (Global Version 220V-240V)
Output	AC Output: 600W (Surge 1200W)	
	USB-C1: 5V⎓3.6A/9V⎓2.5A/12V⎓2.5A (Max. 30W)	
	USB-C2: 5V⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	USB-A: 5V⎓3.6A/9V⎓2.5A/12V⎓2.5A (Max. 30W)	
	DC Output: DC5521x2 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED Lights	50%/100%/SOS/Strobe Modes	

NEW Release

- Aerospace alloy shell, solid and elegant
- Muilty units parallel function
  doubling the power
  doubling the capacity
  the voltage unchanged
- Muilty units serial function
  doubling the power
  doubling the voltage
  the capacity unchanged
- Support grid connection
- APP remote control
- High capacity power Beast

AC Outlet Option

EU:230V 50Hz | AU:230V 50Hz | UK:230V 50Hz | CN:220V 50Hz | US:120V 50Hz | JP: 100V 50Hz/60Hz | SA:230V 50Hz

NEW

NEW-600

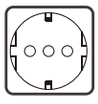
AC Output Option	600W / 800W/1200W	
Material	SS+ABS+PC	
Battery	576Wh (LiFePO4)	
Size&Weight	L300 x W210 x H180(mm) & 6.6kg	
Input	DC Input (Solar)	XT60 33-60V (Max. 600W)
	AC Input	100V-120V 50/60Hz (Max. 1200W) (Global Version 220V-240V)
Output	USB-Ax2: 5V⎓3.6A/9V⎓2.5A/12V⎓2A (Max. 24W)	
	USB-Cx4: 5⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	DC Output: DC5521x2 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED Lights	50%/100%/SOS/Strobe Modes	

NEW

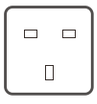
NEW-2500

AC Output Option	1500W / 1800W / 2500W	
Material	SS+ABS+PC	
Power	2073.6Wh (LiFePO4)	
Size&Weight	L420 x W285 x H285(mm) & 25.7kg	
Input	DC Input (Solar)	XT60 33-60V (Max. 600W)
	AC Input	100V-120V 50/60Hz (Max. 1200W) (Global Version 220V-240V)
Output	USB-Ax2: 5V⎓3.6A/9V⎓2.5A/12V⎓2A (Max. 24W)	
	USB-Cx4: 5⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	DC Output: DC5521x2 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED Lights	50%/100%/SOS/Strobe Modes	

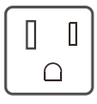
AC Outlet Option

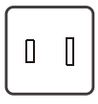

EU:230V 50Hz

AU:230V 50Hz


UK:230V 50Hz

CN:220V 50Hz


US:120V 50Hz


JP: 100V 50Hz/60Hz

SA:230V 50Hz

NEW

PowFi-200 4G/5G

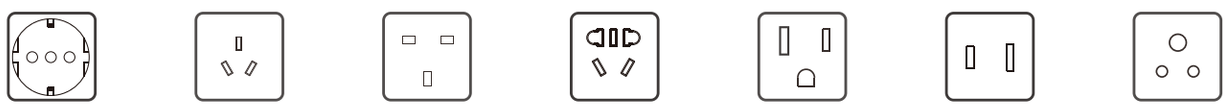
Material:	ABS+PC	
Battery	204.8Wh (LiFePO4)	
Size&Weight:	L261 x W141 x H168(mm) & 3.65kg	
Input	DC Input (Solar)	12V-25.5V DC (Max. 150W)
	AC Input	100V-120V 50/60Hz (Max. 400W) (Global Version 220V-240V)
Output	AC Output: 300W (Surge 600W)	
	USB-A: 5V⎓2A (Max. 10W)	
	USB-C: 5⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	DC Output: DC5521 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED lights	50%/100%/SOS/Strobe Modes	

NEW

PowFi-700 4G/5G

Material	ABS+PC	
Battery	691.2Wh (LiFePO4)	
Size&Weight	L362 x W208 x H220(mm) & 9.75kg	
Input	DC Input (Solar)	12V-25.5V DC (Max. 150W)
	AC Input	100V-120V 50/60Hz (Max. 400W) (Global Version 220V-240V)
Output	AC Output: 700W (Surge 1400W) USB-A: 5V⎓3A/9V⎓2A/12V⎓1.5A (Max. 18W) USB-C: 5⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W) DC Output: DC5521 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED lights	50%/100%/SOS/Strobe Modes	

AC Outlet Option



EU:230V 50Hz | AU:230V 50Hz | UK:230V 50Hz | CN:220V 50Hz | US:120V 50Hz | JP: 100V 50Hz/60Hz | SA:230V 50Hz

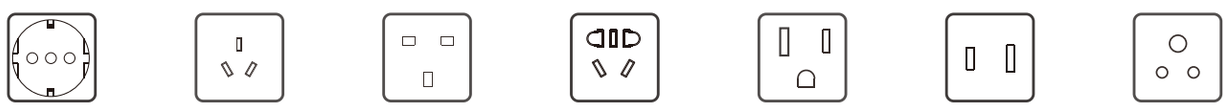
NEO-300W

Material	ABS+PC
Battery	268.8Wh (LiFePO4)
Size&Weight	L255 x W208 x H168(mm) & 3.38kg
Input	DC Input(Adapter & Solar) DC5521 10-19V⎓3.42A (Max. 65W)
Output	AC Output: 300W (Surge 600W) USB-C: 5V⎓3A /9V⎓3A /12V⎓3A /15V⎓3A /20V⎓3A (Max. 60W) USB-A1: 5V⎓3A/9V⎓2A/12V⎓1.5A (Max. 18W) USB-A2: 5V⎓3A (Max. 15W) DC Output: Cigar Lighter 12V⎓**10A (Max. 120W)**
LED Lights	50%/100%/SOS/Strobe Modes

NEO-600W

Material	ABS+PC	
Battery	576Wh (LiFePO4)	
Size&Weight	L300 x W210 x H180(mm) & 6.6kg	
Input	DC Input (Solar)	DC5521 10-24V DC (Max. 150W)
	AC Input	100V-120V 50/60Hz (Max. 550W) (Global Version 220V-240V)
Output	AC Output: 600W (Surge 1200W)	
	USB-C1: 5V⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	USB-C2: 5V⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓3A (Max. 60W)	
	USB-A: 5V⎓3A/9V⎓2A/12V⎓1.5A (Max. 18W)	
	DC Output: DC5521x2 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED Lights	50%/100%/SOS/Strobe Modes	

AC Outlet Option



EU:230V 50Hz | AU:230V 50Hz | UK:230V 50Hz | CN:220V 50Hz | US:120V 50Hz | JP: 100V 50Hz/60Hz | SA:230V 50Hz

NEO-1500W

Material	ABS+PC	
Battery	1382.4Wh (LiFePO4)	
Size&Weight	L400 x W300 x H210(mm) & 18.7kg	
Input	DC Input (Solar)	XT60 33-60V (Max. 600W)
	AC Input	100V-120V 50/60Hz (Max. 1200W) (Global Version 220V-240V)
Output	AC Output: 1500W/1800W (Surge 2600W)	
	USB-Ax4: 5V⎓3.6A/9V⎓2.5A/12V⎓2A (Max. 24W)	
	USB-Cx2: 5⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	DC Output: DC5521x4 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED lights	50%/100%/SOS/Strobe Modes	

NEO-2000W

Material	ABS+PC	
Battery	2073.6Wh (LiFePO4)	
Size&Weight	L476 x W345 x H260(mm) & 25.7kg	
Input	DC Input (Solar)	XT60 33-60V (Max. 600W)
	AC Input	100V-120V 50/60Hz (Max. 1200W) (Global Version 220V-240V)
Output	AC Output: 2000W (Surge 3000W)	
	USB-Ax4: 5V⎓3.6A/9V⎓2.5A/12V⎓2A (Max. 24W)	
	USB-Cx2: 5⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓5A (Max. 100W)	
	DC Output: DC5521x4 & Cigar Lighter 12V⎓**10A (Max. 120W)**	
LED lights	50%/100%/SOS/Strobe Modes	

REDUCE ENERGY COSTS

OFF GRID / ON GRID,
GAIN GRID INDEPENDENCE

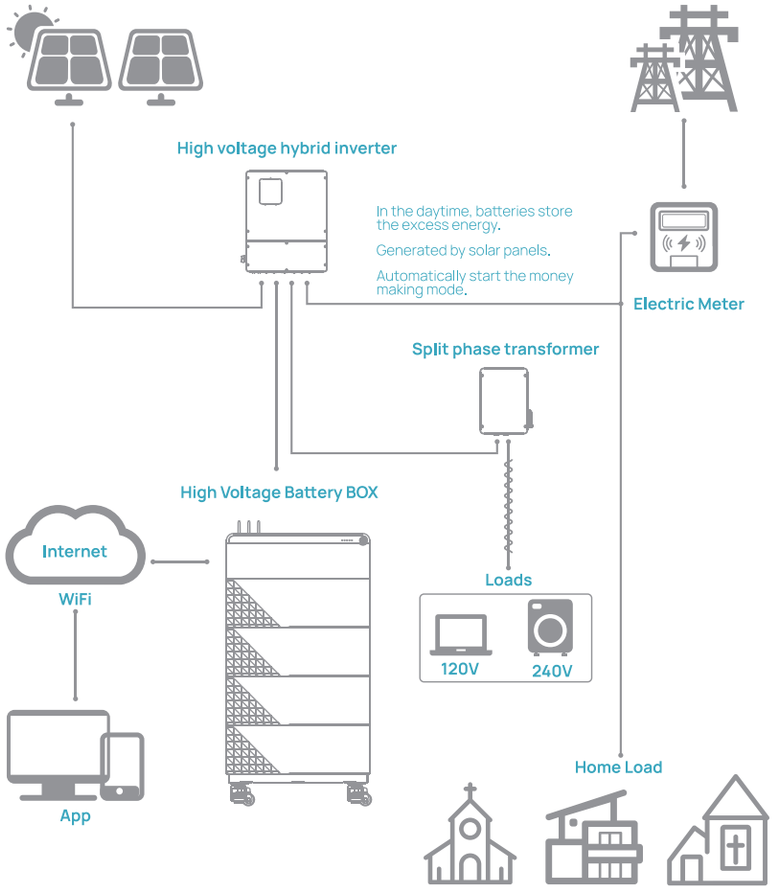
LOWER CARBON EMISSIONS

INCREASE HOME VALUE

MANAGE WITH EASE

Photovoltaic

Electricity Network



Off Grid / On Grid High Voltage Hybrid Inverter & Split Phase Transformer

Technical specification

	HV6KUS	HV8KUS	HV10KUS	HV12KUS
Input (PV)				
Max. power (kW)	7.8	10.4	13	15.6
Max. DC voltage (V)	500	MPPT voltage range (V)	125 - 500	
Max.Input current of single MPPT (A)	12	MPPT tracker/strings	4/1	
AC output				
Rated output power (kVA)	6	8	10	12
Max. output current (A)	27.3	36.4	45.4	50
Grid voltage/range (V)	240/211~264	Frequency (Hz)	50/60	THDi < 3%
Battery				
Full battery voltage (V)	85	110	140	160
Battery voltage range (V)	85~400	Max. charge/discharge current (A)	80/80	
General data				
Noise emission (dB)	<25	<25	<29	<29
Operation temperature	-25℃ ~ 60℃	Relative humidity	0 ~95%(non-condensing)	
Dimensions W*D* H (mm)	530* 200* 660	Weight (kg)	32	
Display and communication				
Interface:RS485/Wifi/4g/CAN/DRM	Yes/Opt/Opt/Yes/Yes	Display	LCD	
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III			

LV48100 Stackable Battery Box

Technical parameters

Number of Modules	2*HV48100	3*HV48100	4*HV48100	5*HV48100	6*HV48100	7*HV48100
Usable Energy[1]	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	256 kWh	30.72 kWh
Max Output Current[2]	65 A	130 A	195 A	250 A	250 A	250 A
Peak Output Current[2]	90 A, 5 s	180 A, 5 s	270 A, 5 s	360 A, 5 s	360 A, 5 s	360 A, 5 s
Dimensions(H/W/D)mm	522*587*410	723*587*410	923*587*410	1124*587*410	1324*587*410	1525*587*410

Nominal Voltage	51.2 V	Operating Voltage	40-57.6 V
Battery Cell Technology	Lithium Iron Phosphate(cobalt-free)	Operating Temperaturue	14 °F to 122 °F
Applications	ON Grid / ON Grid + Backup / OFF Grid	Round-trip Efficiency	≥96%
Scalability [3]	Max. 64 Modules in Parallel (256 kWh)		Single Tower Only
Certification	VDE2510-50 / IEC62619 / CE / CEC / UN38.3	Enclosure Protection Rating	IP55

Off Grid / On Grid 48V Hybrid Split Phase Inverter

Technical specification

	LV5KUS		LV6KUS		LV8KUS
Input (PV)					
Max. power (kW)	7.5		9		12
Max. DC voltage (V)	500	MPPT voltage range (V)		125 - 500	
Max.Input current of single MPPT (A)	12	MPPT tracker/strings		4/1	
AC output					
Rated output power (kVA)	5		6		8
Max. output current (A)	24		28.8		38.3
Frequency (Hz)	50/60	THDi		< 3%	
Ac output voltage (V)	120/240(split phase), 208(2/3 phase),230 (single phase)				
Battery					
Max. charge/discharge current (A)	120/120		135/135		190/190
Battery voltage range (V)	40~58	Battery type		lithium /Lead-acid	
General data					
Noise emission (dB)	<25		<29		<29
Operation temperature	-25C ~60C	Relative humidity		0 ~95%(non-condensing)	
Dimensions W*D* H (mm)	530* 200* 660	Weight (kg)		32	
Display and communication					
Display	LCD, touch screen	Interface:RS485/Wifi/4g/CAN/DRM		Yes	
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,NRS				

HV400VS High Voltage Battery Box

Technical parameters

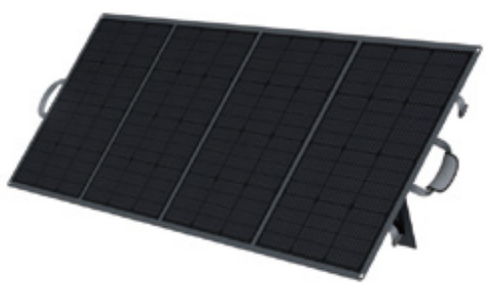
Number of Modules	2*HV48100	3*HV48100	4*HV48100	5*HV48100	6*HV48100	7*HV48100
Usable Energy[1]	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh
Nominal Voltage	102.4V	153.6V	204.8V	256V	307.2V	358.4V
Operating Voltage	80~115.3V	120~173V	160V-230V	200V-288V	240V-345V	280V-403V
Dimensions(H/W/D)mm	678*587*410	878*587*410	1079*587*410	1279*587*410	1480*587*410	1680*587*410

Max Output Current[2]	50A	Peak Output Current[2]	75A,3s
Battery Cell Technology	Lithium Iron Phosphate(cobalt-free)	Operating Temperaturue	14 °F to 122 °F
Enclosure Protection Rating	IP55	Round-trip Efficiency	≥96%
Applications	ON Grid / ON Grid + Backup / OFF Grid	Module	IEC660730/FCC/UN38.3
Compatible Inverters (PCS)	OKEPS HV Series Inverter	Warranty[3]	10Years

Foldable Solar Panel

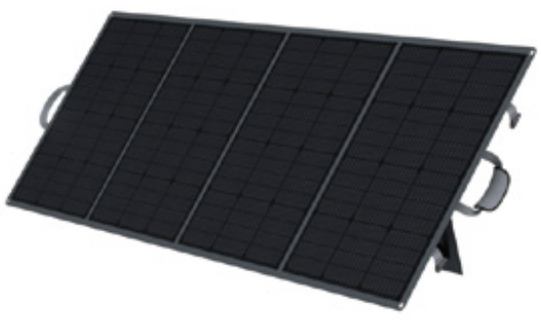
100W Foldable Solar Panel

Power:	100W	**Configuration:**	50W/2 pieces
Working voltage:	20V	**Working current:**	5A
Open circuit voltage:	24V	**Weight:**	3.8 KG
Folding size:	550*568*35mm	**Unfolding size:**	1100*568*25mm
Craftsmanship:	cloth sewing	**Solar panel:**	monocrystalline
Outer packaging:	4 sets in one box		
Type-C:	60W (5V=3A/9V=3A/12V=3A/15V=3A/20V=3A)		



200W Foldable Solar Panel

Power:	200W	**Configuration:**	50W/4 pieces
Working voltage:	40V	**Working current:**	5A
Open circuit voltage:	48V	**Weight:**	6.8 KG
Folding size:	550*568*45mm	**Unfolding size:**	2220*568*25mm
Craftsmanship:	cloth sewing	**Solar panel:**	monocrystalline
Outer packaging:	4 sets in one box		
Type-C:	60W (5V=3A/9V=3A/12V=3A/15V=3A/20V=3A)		



300W Foldable Solar Panel

Power:	300W	**Configuration:**	50W/2 pieces
Working voltage:	36.3V	**Working current:**	8.26A
Open circuit voltage:	43.5V	**Weight:**	9.5 KG
Folding size:	740*604*45mm	**Unfolding size:**	2408*740*25mm
Craftsmanship:	cloth sewing	**Solar panel:**	monocrystalline
Outer packaging:	4 sets in one box		
Type-C:	60W (5V=3A/9V=3A/12V=3A/15V=3A/20V=3A)		

Typical Customers

NOKIA	HUAWEI	SAMSUNG	BYD
	ERICSSON	NEC	TP-LINK
T&W	Qualcomm	FOXCONN	Panasonic
	STATE GRID CORPORATION OF CHINA	Midea	SUNGROW