Innovation &Quality

Lersion New Energy Technology(shanghai)Co.,LTD

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LERSION

Integration of solar power generation and energy storage

High-end power supply manufacturer, power supply expert who creates high-quality brands

Lersion New Energy Technology(shanghai)Co.,LTD

ISO 9001

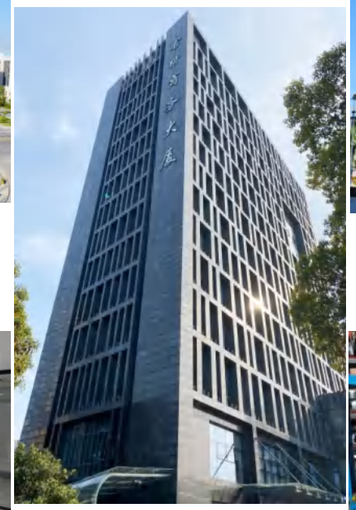
CE

R & D | Manufacture | Sales | Service

COMPANY PROFILE

Lersion New Energy Technology (Shanghai) Co., Ltd. has its own factory, focusing on the independent research and development, production, sales and service in the high-end field of power supply, inverter, UPS power supply, solar power generation system, intelligent charging station and other new energy fields.

Industrial park



Workshop

The company has a strong research and development team, product innovation, technical level leading the industry, the company has a number of production lines and supporting production testing equipment annual production capacity of more than 200,000 sets, excellent service team in the consumer has won a good reputation among consumers. Power supply products, solar energy products are exported to home and abroad, widely used in education, transportation, finance, chemical and oil, home power generation and many other fields.

Lersion has always been adhering to the "scientific and technological innovation, craftsman quality" service tenet and "people-oriented" corporate culture, to create a quality brand of power experts.

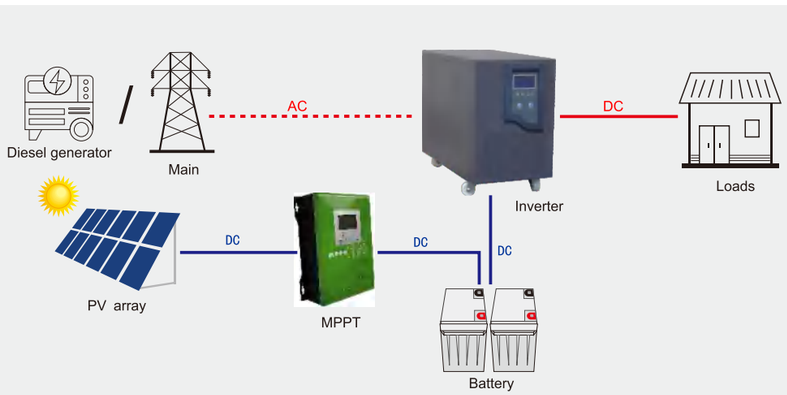
A series inverter

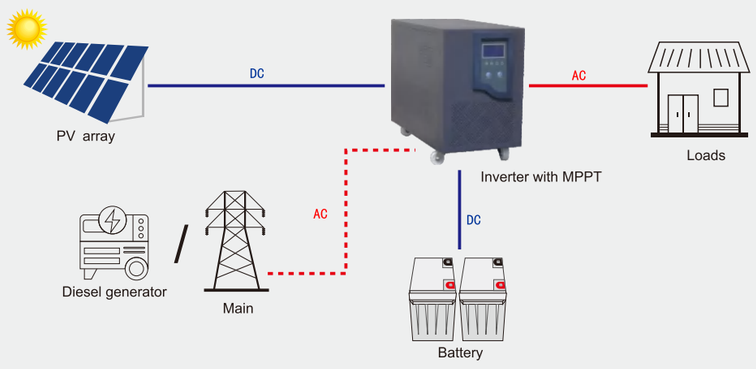
Featrues:

- Power frequency scheme design, pure sine wave output, compatible
- with different types of loads;Comprehensive digital LCD display,
- easy to understand the working state of the machine;Wide input
- voltage range and high-precision output;Mains priority mode /
- battery priority mode can be set;Battery overvoltage / low voltage,
- overload, short circuit, over temperature protection, etc;Built in
- PWM controller, more convenient system connection;It can be used
- as unattended function and more humanized (optional);Lightning
- arrester can be installed (optional);Built in or external WiFi monitoring (optional);

Application

Application diagram





Technical Parameters

Inverter mode	AN150	AN200	AN300	AN400	AN500	AN600
Inverter with controller mode	AP150	AP200	AP300	AP400	AP500	AP600
Rated power	1500W	2000W	3000W	4000W	5000W	6000W
Battery voltage	24V/48V			48V		
Size:(L*W*Hmm)	520*220*360			520*250*400		
package size (L*W*Hmm)	560*265*400			580*310*450		
N.W. (KG)	15	20	22	27	29	31
G.W.(KG)	17	23	25	30	32	34

Input

Phase	L+N+G
AC input range	110V:85-138VAC;220V:170-275VAC
Input frequency	45Hz～55Hz

Output

Output voltage	inverter mode:110VAC/220V±5%;AC mode:110VAC/220VAC±10%;
Frequency range (AC mode)	Automatic tracking
Frequency range (inverter mode)	50Hz/60Hz±1%
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;) inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)
Peak current ratio	3:1max
Conversion time	<10ms(Typical loads)
Waveform	Pure sine wave
Efficiency	>85%(80% resistive loads)
Protection functions	Battery overvoltage protection,battery undervoltage protection,overload protection, short circuit protection,overtemperature protection,etc.

built in solar charge controller(adjust)

Max charge current	30A	50A
PV input voltage range	24V:30V-50V, 48V:60V-80V	
Max PV input	24V:720W, 48V:1440W	24V:1200W, 48V:2400W
Cooling method	Fans cooling	

environmental conditions

Operating temperature	0℃-40℃ （Battery life decreases at ambient temperatures above 25 degrees Celsius）
Operation humidity	<95%（without condesing）
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m
Noise	<58dB(distance to machine 1m）

Management

Display	LCD+LED
Computer communication interface	RS232(adjust)

*The above data is for reference. If there is any change, please refer to the real object.

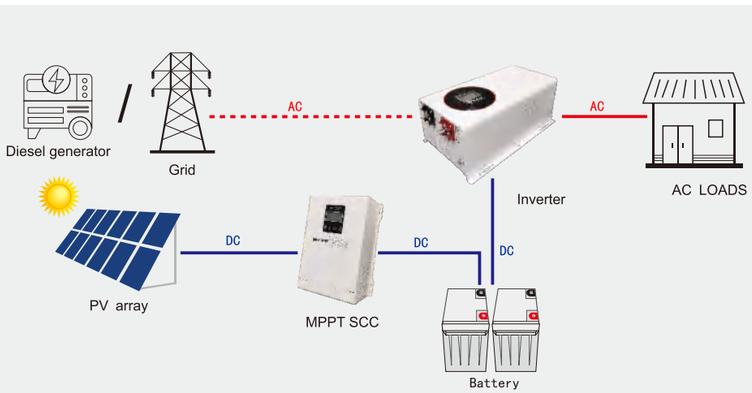
E Series Inverter

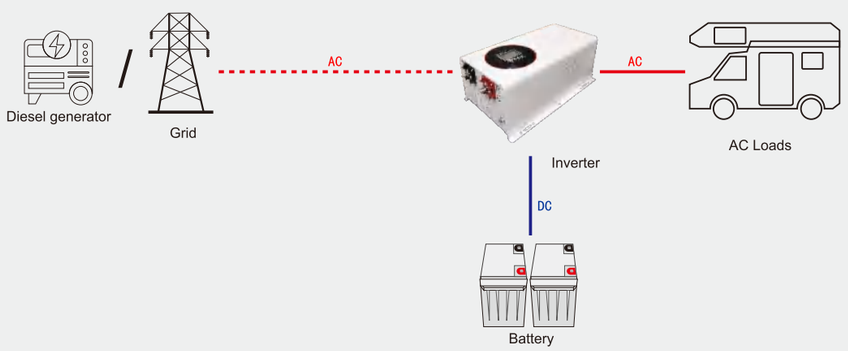
Products Features

- Dual MCU design, excellent performance;
- Power frequency, adapt to various types of loads;
- Toroidal transformer, low no-load loss;
- Comprehensive digital LCD display, easy to understand the working status of the machine;
- Wide input voltage range, high-precision output, fully automatic voltage stabilization function;
- LVD , HVD , charging voltage and turn off voltage, battery type/charging current settable;

Application

Application diagram





Technical Parameters

Inverter mode	EN100	EN150	EN200	EN300	EN400	EN500	EN600
Rated power	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Battery voltage	12V24V/48V	24V/48V			48V		
Size:(L*W*Hmm)	535*262*185				575*337*215		
package size (L*W*Hmm)	575*312*235				615*387*265		
N.W. (KG)	10.5	12. 5	15	17. 5	20	24	25
G.W.(KG)	13	15	17.5	20	23	27	28

Input

Phase	L+N+G
AC input range	110V:85-138VAC;220V:170-275VAC
Input frequency	45Hz～55Hz

Output

Output voltage	inverter mode:110VAC/220V±5%;AC mode:110VAC/220VAC±10%;
Frequency range (AC mode)	Automatic tracking
Frequency range (inverter mode)	50Hz/60Hz±1%
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;)
	inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)
Peak current ratio	3:1max
Conversion time	<10ms(Typical loads)
Waveform	Pure sine wave
Efficiency	>85%(80% resistive loads)
Protection functions	Battery overvoltage protection,battery undervoltage protection,overload protection, short circuit protection,overtemperature protection,etc.
Cooling method	Fans cooling

environmental conditions

Operating temperature	0℃-40℃ (Battery life decreases at ambient temperatures above 25 degrees Celsius)
Operation humidity	<95% (without condesing)
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m
Noise	<58dB(distance to machine 1m)

Management

Display	LCD+LED
Computer communication interface	RS232(adjust)

*The above data is for reference. If there is any change, please refer to the real object.

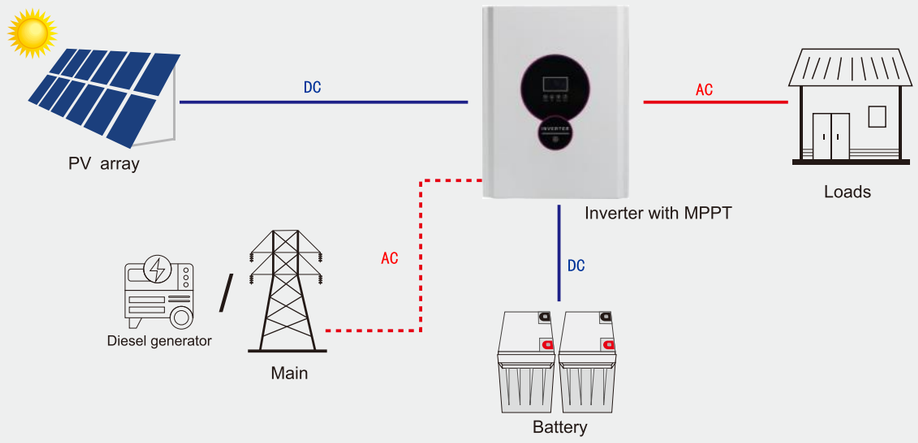
D series single phase inverter

Featrues:

- Power frequency scheme design, pure sine wave output, suitable for various types of loads;
- Ring type transformer, low no-load loss;
- Wide input voltage range and high-precision output;
- Three mode can be set, battery type, charging voltage and current adjustable.
- Battery overvoltage / low voltage, overload, short circuit, over temperature protection, etc;
- Built in MPPT controller, higher charging efficiency;
- It can be used as unattended function and more humanized (optional);
- Lightning arrester can be installed (optional);
- Built in or external WiFi monitoring (optional);
- LCD screen design, more accurate and intuitive display and simple operation;

Application

Application diagram



Technical Parameters

Inverter with controller mode	DML100	DML150	DML200	DML300	DML400	DML500	DML600	DML800
Rated power	1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W
Battery voltage	12V/24V	24V	24V/48V		48V			
Size:(L*W*Hmm)	400*269*135		502*400*168		630*476*268		680*530*268	730*476*268
package size (L*W*Hmm)	466*339*201		572*470*238		700*546*338		750*600*338	800*546*338
N.W. (KG)	9. 5	11. 5	17	19. 5	27	29	31	36
G.W.(KG)	11. 5	13. 5	19	22	30	32	34	39

Input

Phase	L+N+G
AC input range	110V:85-138VAC;220V:170-275VAC
Input frequency	45Hz～55Hz

Output

Output voltage	inverter mode:110VAC/220V±5%;AC mode:110VAC/220VAC±10%;
Frequency range (AC mode)	Automatic tracking
Frequency range (inverter mode)	50Hz/60Hz±1%
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;)
	inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)
Peak current ratio	3:1max
Conversion time	<10ms(Typical loads)
Waveform	Pure sine wave
Efficiency	>85%(80% resistive loads)
Protection functions	Battery overvoltage protection,battery undervoltage protection,overload protection, short circuit protection,overtemperature protection,etc.

built in solar charge controller(adjust)

Max charge current	20A	40A	50A	60A	100A
Battery voltage	12V/24V	24V/48V	24V/48V	24V/48V	24V/48V
PV input voltage range	12V:18V-36V; 24V:30V-60V;	24V:38V-150V;48V:65V-150V;			
Max PV input	12V:280W 24V:550W	24V:960W 48V:1920W	24V:1200W 48V:2400W	24V:1440W 48V:2880W	24V:2400W 48V:4800W
Cooling method	Fans cooling				

environmental conditions

Operating temperature	0℃-40℃ (Battery life decreases at ambient temperatures above 25 degrees Celsius)
Operation humidity	<95% (without condesing)
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m
Noise	<58dB(distance to machine 1m)

Management

Display	LCD+LED
Computer communication interface	RS485(adjust)

*The above data is for reference. If there is any change, please refer to the real object.

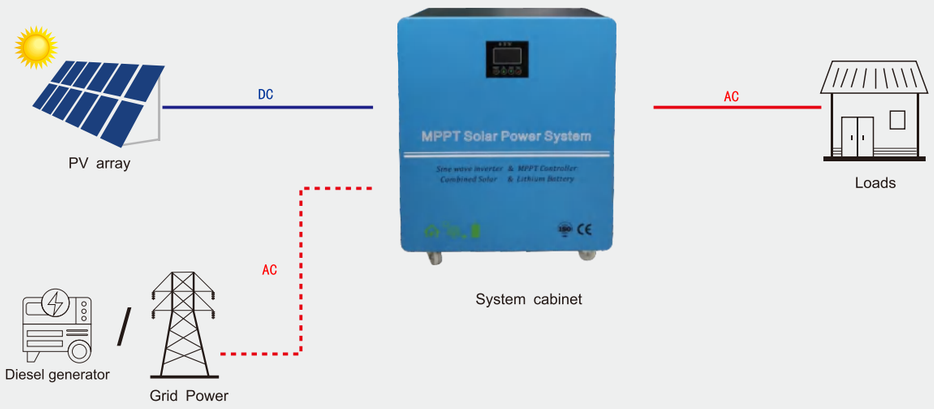
TL series lithium battery energy storage integrated cabinet

Products Features

- Power frequency, adapt to various types of loads;
- Toroidal transformer, low load loss;
- Perfect protection function, safe and reliable;
- Double function mode,more flexible for daily use;
- Choice of industry high-end lithium iron phosphate cell,
- low internal resistance, high rate, high safety, High cycle times,
- long service life, low comprehensive operation cost.
- Built-in MPPT controller, higher charging efficiency;

Application

Application diagram



Technical Parameters

Mode	TL050	TL100	TL150	TL200	TL300	TL400	TL500	TL600
Rated power	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Battery voltage	12V/24V		24V/48V			48V		
Battery type	LiFePO4 Battery							
Battery capacity	2KWh		3KWh			5KWh		
Size:(L*W*Hmm)	470*290*590					500*290*785		
package size (L*W*Hmm)	560*380*760					560*380*970		
N.W. (KG)	25	27	30	32	35	37	40	42
G.W.(KG)	35	37	40	42	45	47	50	52
Input								
Phase	L+N+G							
AC input range	110V:85-138VAC;220V:170-275VAC							
Input frequency	45Hz～55Hz							
Output								
Output voltage	inverter mode:110VAC/220V±5%;AC mode:110VAC/220VAC±10%;							
Frequency range (AC mode)	Automatic tracking							
Frequency range (inverter mode)	50Hz/60Hz±1%							
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;)							
	inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)							
Peak current ratio	3:1max							
Conversion time	<10ms(Typical loads)							
Waveform	Pure sine wave							
Efficiency	>85%(80% resistive loads)							
Protection functions	Battery overvoltage protection,battery undervoltage protection,overload protection, short circuit protection,overtemperature protection,etc.							

built in solar charge controller(adjust)				
Max charge current	40A	50A	60A	100A
Battery voltage	12V/24V/48V			
PV input voltage range	12V:20V-100V;24V:38V-150V;48V:65V-150V			
Max PV input	12V:480W 24V:960W 48V:1920W	12V:620W 24V:1200W 48V:2400W	12V:720W 24V:1440W 48V:2880W	24V:2400W 48V:4800W
Cooling method	Fans cooling			

environmental conditions	
Operating temperature	0℃-40℃ （Battery life decreases at ambient temperatures above 25 degrees Celsius）
Operation humidity	<95%（without condesing）
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m
Noise	<58dB(distance to machine 1m）

Management	
Display	LCD+LED

*The above data is for reference. If there is any change, please refer to the real object.

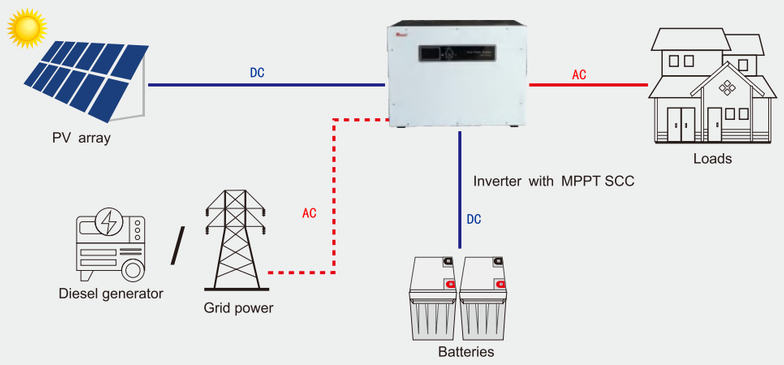
PT Series solar inverter

Product features

- Touch screen color control
- Available work without battery bank
- Built in or external WiFi monitoring(optional)
- Lithium batteries compatible with Rs485 interface
- PV can support the loads without going through batteries
- IGBT(Germany infineon)technology for both inverter and MPPT
- LVD/HVD setting and AC/PV charging voltages setting available
- SCR ATS for different working modes(1ms for switching-No break)
- Transformer based with 3 times peak power(Good to run inductive loads)
- Battery cut-off voltage setting AC/PV charging currents setting available
- IP64 protection for PCB boards(Prevents dusts and insects from coming inside

Application

Application diagram



Technical Parameters

Inverter with controller mode	PT8K	PT10K	PT12K
Rated power	8KW	10KW	12KW
Battery voltage		48V	
Size:(L*W*Hmm)	800*630*320mm	900*630*320mm	
package size (L*W*Hmm)	900*725*480mm	1020*740*470mm	
N.W. (KG)	107. 5	116	129
G.W.(KG)	129. 5	140	153
Input			
Phase	L+N+G		
AC input range	110V:85-138VAC;220V:170-275VAC		
Input frequency	45Hz～55Hz		
Output			
Output voltage	inverter mode:110VAC/220V±5%;AC mode:110VAC/220VAC±10%;		
Frequency range (AC mode)	Automatic tracking		
Frequency range (inverter mode)	50Hz/60Hz±1%		
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;)		
	inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)		
Peak current ratio	3:1max		
Conversion time	<10ms(Typical loads)		
Waveform	Pure sine wave		
Efficiency	>85%(80% resistive loads)		
Protection functions	Battery overvoltage protection,battery undervoltage protection,overload protection, short circuit protection,overtemperature protection,etc.		
built in solar charge controller(adjust)			
Max charge current	150A	180A	200A
Battery voltage	48V		
PV input voltage range	65V-250V		
Max PV input	7200W	8640W	9600W
Cooling method	Fans cooling		
environmental conditions			
Operating temperature	0℃-40℃ (Battery life decreases at ambient temperatures above 25 degrees Celsius)		
Operation humidity	<95% (without condesing)		
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m		
Noise	<58dB(distance to machine 1m)		
Management			
Display	LCD+LED		
Computer communication interface	RS485(adjust)		

*The above data is for reference. If there is any change, please refer to the real object.

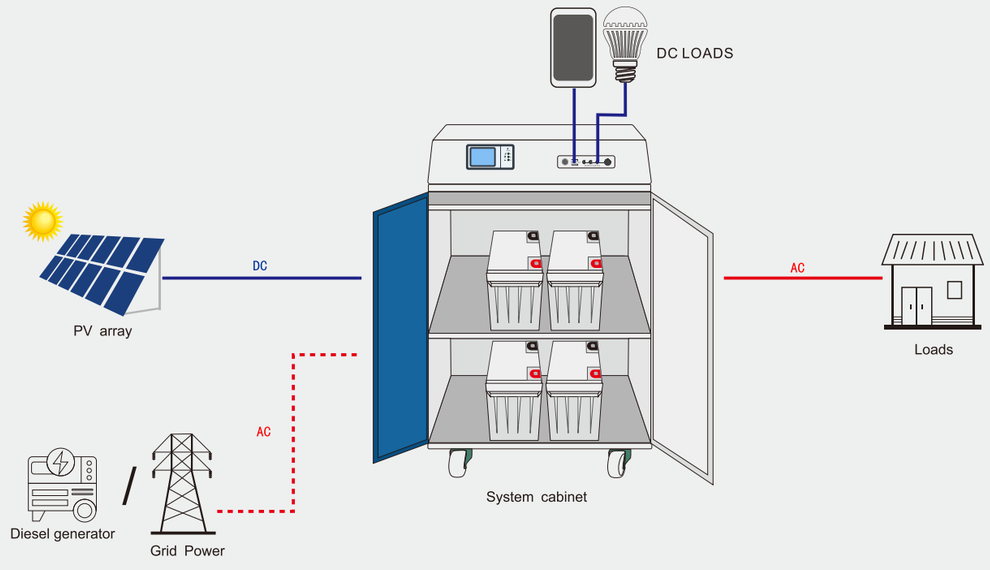
ST Series system cabinet

Products Features

- Power frequency, adapt to various types of loads;
- Toroidal transformer, low load loss;
- Perfect protection function, safe and reliable;
- Double function mode,more flexible for daily use;
- Unattended function, more humane;
- Integrated DC power supply output, convenient for users;
- Built-in MPPT controller, higher charging efficiency;
- Large battery compartment, suitable for various batteries specifications;

Application

Application diagram



Technical Parameters

Mode	ST050	ST100	ST150	ST200	ST300	ST400	ST500	ST600
Rated power	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Battery voltage	12V/24V			24V/48V		48V		
Size:(L*W*Hmm)	580*350*605(12V)			590*340*940(24V)		590*560*940(48V)		
package size (L*W*Hmm)	730*500*775(12V)			660*430*1105(24V)		660*640*1105(48V)		
Battery type	1*12V200Ah			2*12V200Ah		4*12V200Ah		
N.W. (KG)	12V:24 24V:39	12V:25 24V:40	12V:26 24V:41	24V:47 48V:62	24V:49 48V:64	67	71	72
G.W.(KG)	12V:28 24V:51	12V:29 24V:52	12V:30 24V:53	24V:59 48V:77	24V:61 48V:79	82	86	87
Input								
Phase	L+N+G							
AC input range	110V:85-138VAC;220V:170-275VAC							
Input frequency	45Hz～55Hz							
Output								
Output voltage	inverter mode:110VAC/220V±5%;AC mode:110VAC/220VAC±10%;							
Frequency range (AC mode)	Automatic tracking							
Frequency range (inverter mode)	50Hz/60Hz±1%							
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;)							
	inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)							
Peak current ratio	3:1max							
Conversion time	<10ms(Typical loads)							
Waveform	Pure sine wave							
Efficiency	>85%(80% resistive loads)							
Protection functions	Battery overvoltage protection,battery undervoltage protection,overload protection, short circuit protection,overtemperature protection,etc.							
DC output (adjust)	USB	5VDC/1A*2						
	DC2.0	12VDC/5A*4						

built in solar charge controller(adjust)

Max charge current	30A	50A	60A	100A (Custom)	120A(Custom)
Battery voltage	24V/48V	24V/48V	24V/48V	24V/48V	24V/48V
PV input voltage range	PWM:12V:16-36V; 24V:30V-50V; 48V:60V-80V; MPPT:12V:20-100V; 24V:38V-150V; 48V:65V-150V;				
Max PV input	24V:720W 48V:1440W	24V:1200W 48V:2400W	24V:1440W 48V:2880W	24V:2400W 48V:4800W	24V:2880W 48V:5760W
Cooling method	Fans cooling				

environmental conditions

Operating temperature	0℃-40℃ (Battery life decreases at ambient temperatures above 25 degrees Celsius)
Operation humidity	<95% (without condesing)
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m
Noise	<58dB(distance to machine 1m)

Management

Display	LCD+LED
Computer communication interface	RS232(adjust)

*The above data is for reference. If there is any change, please refer to the real object.

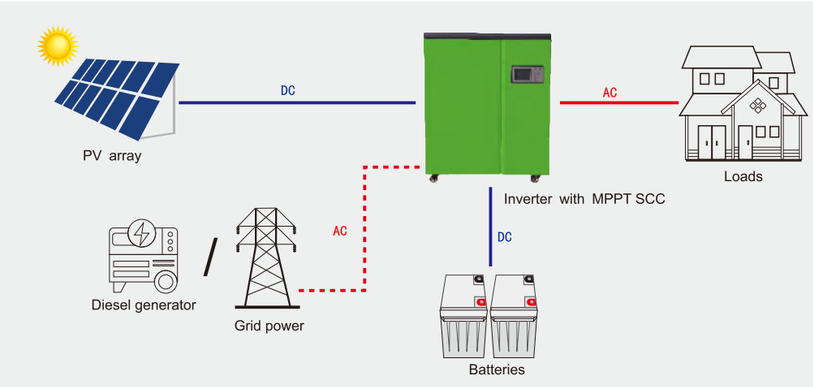
GT Series solar inverter

Product features

- MCU, SPWM control technology, pure sine wave;
- Unique dynamic current loop control technology;
- Applying to capacitive/inductive/nonlinear mixed load;
- Strong overload and impact resistance;
- Perfect protection function: overload, short circuit, over-temperature etc.
- High efficiency, low noise, environment protect and energy save;
- Automatic switching, unattended;
- Stable performance, safe and reliable, long lifespan;
- Communication: USB/SNMP/GSM SMS;

Application

Application diagram



Technical Parameters

Inverter mode	GT080	GT100	GT120	GT150	GT180	GT200	GT250	GT300
Inverter with controller mode	GTM080	GTM100	GTM120	GTM150	GTM180	GTM200		
Rated power	8KW	10KW	12KW	15KW	18KW	20KW	25KW	30KW
Battery voltage	96V/192V			192V/240V/360V			240V/360V	
Size:(L*W*Hmm)	580*370*730			740*400*930				
package size (L*W*Hmm)	650*420*840			850*515*1115				
N.W. (KG)	78	85	92	116	130	133	150	169
G.W.(KG)	90	97	104	132	146	149	166	185

Input

Phase	L+N+G
AC input range	110V:85-138VAC;220V:170-275VAC
Input frequency	45Hz～55Hz

Output

Output voltage	inverter mode:110VAC/220V±5%;AC mode:110VAC/220VAC±10%;
Frequency range (AC mode)	Automatic tracking
Frequency range (inverter mode)	50Hz/60Hz±1%
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;) inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)
Peak current ratio	3:1max
Conversion time	<10ms(Typical loads)
Waveform	Pure sine wave
Efficiency	>85%(80% resistive loads)
Protection functions	Battery overvoltage protection,battery undervoltage protection,overload protection, short circuit protection,overtemperature protection,etc.

built in solar charge controller(adjust)

Max charge current	50A	60A	100A	120A
Battery voltage	96V/192V	96V/192V	96V/192V	96V/192V
PV input voltage range	96V:145V-230V; 192V:260V-400V;			
Max PV input	96V:4800W 192V:9600W	96V:5760W 192V:11520W	96V:9600W 192V:19200W	96V:11520W 192V:23040W
Cooling method	Fans cooling			

environmental conditions

Operating temperature	0℃-40℃ （Battery life decreases at ambient temperatures above 25 degrees Celsius）
Operation humidity	<95%（without condesing）
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m
Noise	<58dB(distance to machine 1m）

Management

Display	LCD+LED
Computer communication interface	RS232(adjust)

*The above data is for reference. If there is any change, please refer to the real object.

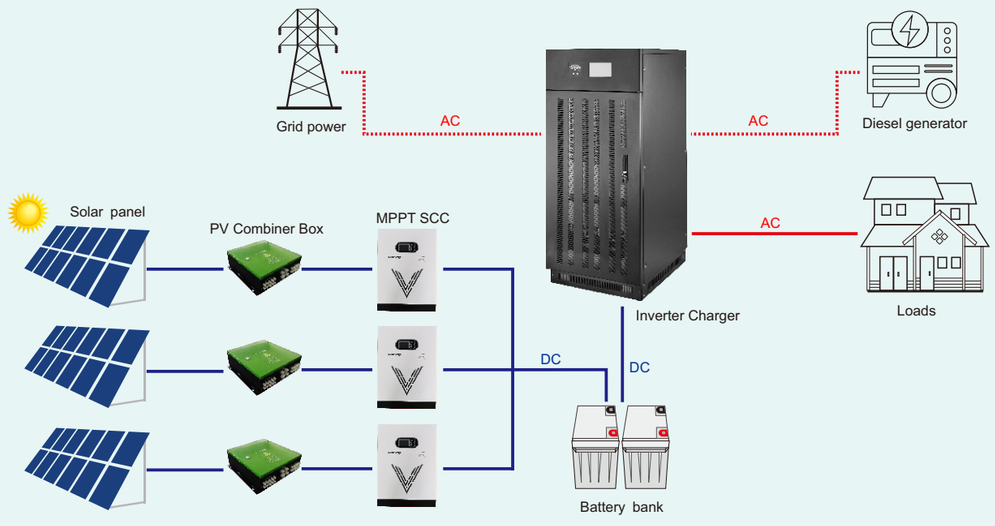
CPN Series 3Phase Inverter Charger

Product features

- DSP, MCU and DDC real-time processing all digital control technology
- IGBT inverter technology and high frequency PWM technology
- AC input over-voltage / undervoltage, output over-voltage / undervoltage, output overload, short circuit protection, over temperature protection, undervoltage warning, battery overcharge protection
- 7-inch touch screen digital display

Application

Application diagram



Technical Parameters

Mode	CPN10K	CPN15K	CPN20K	CPN30K	CPN40K	CPN50K	CPN60K	CPN80K	CPN100K	CPN120K	CPN160K	CPN200K
Capacity	10KVA	15KVA	20KVA	30KVA	40KVA	50KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA
Battery voltage	192V/220V/360V/384V			220V/360V/384V		360V/384V						
Size:(L*W*Hmm)	720*460*1180			730*570*1150		800*670*1550					1210*875*1680	
package size (L*W*Hmm)	880*610*1350			850*700*1250		1070*820*1680					1370*1025*1850	
N.W. (KG)	195	240	270	330	380	430	550	630	680	750	950	1300
G.W.(KG)	210	255	285	360	410	465	585	670	720	790	1000	1350
Input												
Phase	Three-phase+N+G											
AC input range	380VAC±20%											
Input frequency	45Hz～55Hz											
Output												
Output voltage	inverter mode:380Vac±3%;AC mode:380Vac±20%;											
Frequency range (AC mode)	45Hz～55Hz											
Frequency range (inverter mode)	50Hz±0.1Hz											
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;)											
	inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)											
Peak current ratio	3:1max											
Conversion time	<10ms											
Waveform	Pure sine wave											
Harmonic distortion	Linear load<3%;Non-linear load<5%											
Balance load voltage	<±1%											
Imbalance load voltage	<±5%											
Efficiency	98%											
Isolation type	output isolation											
Battery												
battery capacity	It depends on the use											
battery number	It depends on the use											
environmental conditions												
Operating temperature	0℃-40℃ (Battery life decreases at ambient temperatures above 25 degrees Celsius)											
Operation humidity	<95% (without condesing)											
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m											
Noise	<58dB(distance to machine 1m)											
Management												
Display	7inch touch screen system											
Computer communication interface	RS232,(485、Network remote monitoring options)											

*The above data is for reference. If there is any change, please refer to the real object.

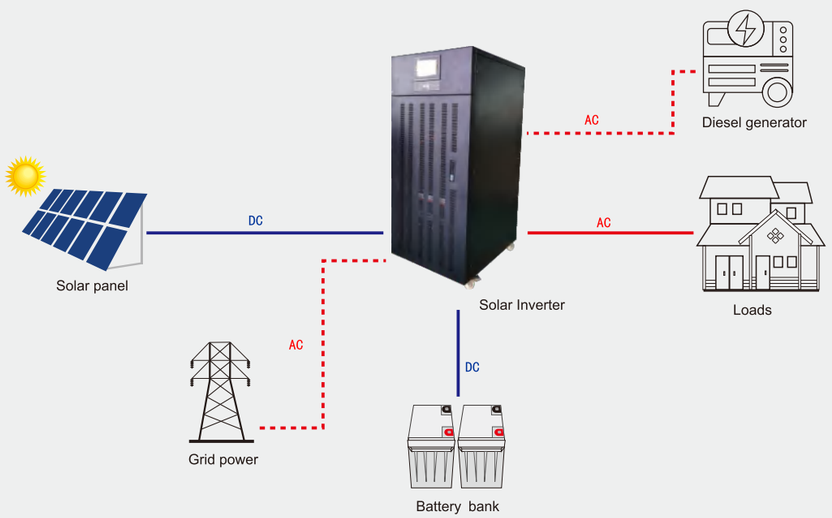
CPM Series 3Phase Solar Inverter

Product features

- Vector control technology of DSP, MCU and DDC real-time processing
- High efficiency IGBT technology, higher efficiency
- 7-inch touch screen system is more accurate and intuitive
- Perfect protection function, safe and reliable
- Parameters can be modified online
- Multiple working modes to meet user requirements
- Built in MPPT control module and view real-time power

Application

Application diagram



Technical Parameters

Mode	CPM8K	CPM10K	CPM15K	CPM20K	CPM25K	CPM30K	CPM40K
Capacity	8KW	10KW	15KW	20KW	25KW	30KW	40KW
Battery voltage	192/220/360/384VDC						
Size:(L*W*Hmm)	800*670*1550（W*D*Hmm）						
package size (L*W*Hmm)	1070*820*1680（W*D*Hmm）						
N.W. (KG)	140	150	220	250	280	310	
G.W.(KG)	175	185	255	285	315	345	
Input							
Phase	Three-phase+N+G						
AC input range	380VAC±20%						
Input frequency	45Hz～55Hz						
Output							
Output voltage	inverter mode:380Vac±3%;AC mode:380Vac±20%;						
Frequency range (AC mode)	45Hz～55Hz						
Frequency range (inverter mode)	50Hz±0.1Hz						
Over load capacity	AC mode:(100%～110%:10min;110%～130%:1min;>130%:1s;)						
	inverter mode:(100%～110%:30s;110%～130%:10s;>130%:1s;)						
Peak current ratio	3:1max						
Conversion time	<10ms						
Waveform	Pure sine wave						
Harmonic distortion	Linear load<3%;Non-linear load<5%						
Balance load voltage	<±1%						
Imbalance load voltage	<±5%						
Efficiency	85%						
Isolation type	output isolation						
Battery							
battery capacity	It depends on the use						
battery number	It depends on the use						
environmental conditions							
Operating temperature	0℃-40℃ （Battery life decreases at ambient temperatures above 25 degrees Celsius）						
Operation humidity	<95%（without condesing）						
Operating altitude	<1000m(with increase of 100m,it will reduce output of 1%) max5000m						
Noise	<58dB(distance to machine 1m)						
MPPT controller							
Battery voltage	192V		220V		360V		384V
PV input voltage range	260V-400V				450V-750V		
Max charge current	50A				100A		
Max PV input	192V:10KW, 220V:11KW 360V:18KW, 384V:19KW				192V:20KW, 220V:22KW 360V:36KW, 384V:38KW		
Management							
Display	7inch touch screen system						
Computer communication interface	RS232,(485、Network remote monitoring options)						

*The above data is for reference. If there is any change, please refer to the real object.

LVC Series MPPT SCC

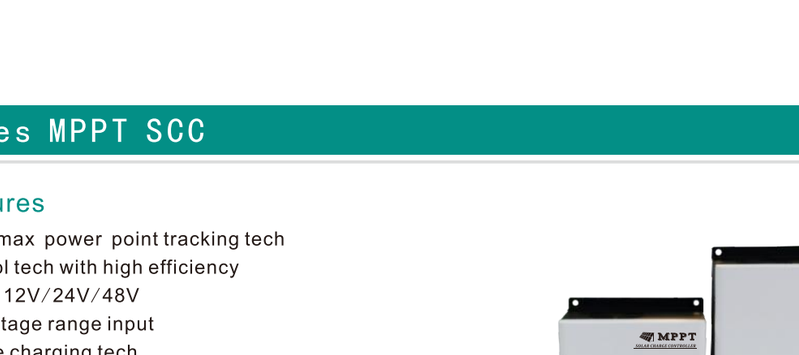
Product features

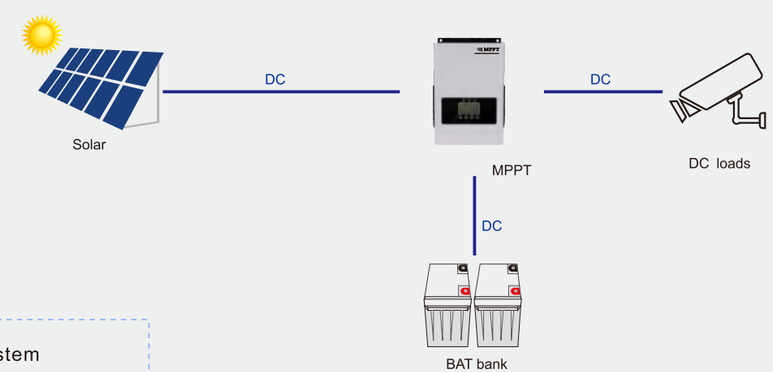
- Intelligent max power point tracking tech
- DSP control tech with high efficiency
- Auto adjust 12V/24V/48V
- PV wide voltage range input
- Three stage charging tech
- Multiple protection functions
- Floating charge voltage setting

Application

Residential | Communication base station | Ship/island | Farm | No electricity area | Factory

Application diagram





Technical Parameters

Mode	LVC30A	LVC40A	LVC50A	LVC60A	LVC80A	LVC48V100A	LVC96V100A
Rated current	30A	40A	50A	60A	80A	100A	100A
Max current	31A	41A	51A	61A	81A	101A	101A
System voltage	12V/24V/48V（自动识别）						96V
Size:(L*W*Hmm)	235*160*108		335*217*125			390*265*125	
package size (L*W*Hmm)	255*180*128		355*237*145			410*285*145	
N.W. (KG)	2.6		6.8			6.8	
G.W.(KG)	3		8.5			8.5	
Charge mode	MPPT Automatic maximum power point tracking						
Charge method	Three stage:Boost,Equalize,Float						
Start up time	⩽10s						
Dynamic response time to recover	⩽500us						
Quiescent dissipation	⩽2W						
Efficiency	⩾96.5%						
Identify range of battery voltage	12V:DC9V-15V 24V:DC18V-30V 48V:DC36V-60V						96V:DC72V-120V
MPPT working Range	12V:DC20V-100V 24V:DC38V-150V 48V:DC65V-150V						96V:DC145V-230V
Max PV input	12V:360W/480W/600W/720W/960/1200W						96V:9600W
	24V:720W/960W/1200W/1440W/1920/2400W						
	48V:1440W/1920W/2400W/2880W/3840/4800W						

Display	LCD+LED
Input polarity reverse connection protection	Yes
Output polarity reverse connection protection	Yes
Low voltage protection	Yes
High voltage protection	Yes
Short circuit protection	Yes
Over temperature protection	+85℃
Cooling method	air cooling, fan speed is regulated by temperature, when internal temperature is low; when the controller stops working, the fan stops working
Noicy	⩽50dB
humidity	<95% (without condesing)
Height	0~3000M
Temperature	-20℃~+40℃
Storage temperature	-40℃~+70℃

*The above data is for reference. If there is any change, please refer to the real object.

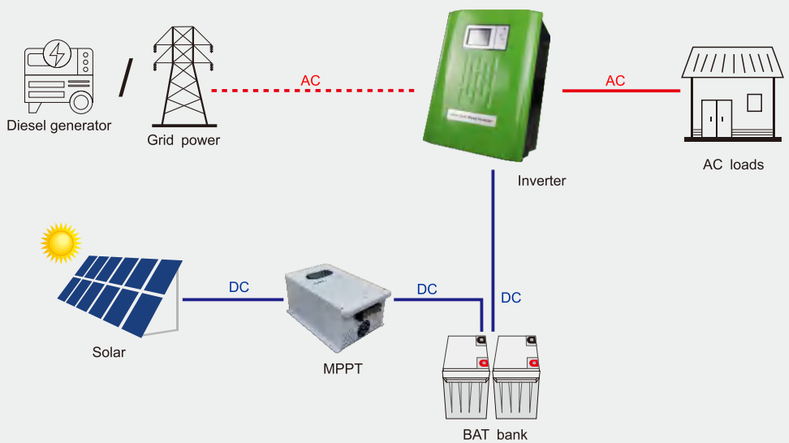
HVC Series MPPT SCC

Product features

- Intelligent max power point tracking tech
- DSP control tech with high efficiency
- Activated lithium battery
- PV wide voltage range input
- Three stage charging tech
- Multiple protection functions
- Floating charge voltage setting

Application

Application diagram



Technical Parameters

Mode	HVC48150	HVC48180	HVC48200	HVC96150	HVC96180	HVC96200
Rated current	150A	180A	200A	150A	180A	200A
Max current	151A	181A	201A	151A	181A	201A
System voltage	48V			96V		
Size:(L*W*Hmm)	515*346*225			515*346*225		
package size (L*W*Hmm)	650*400*280			650*400*280		
N.W. (KG)	17			17.5		
G.W.(KG)	19.5			20		
Charge mode	MPPT Automatic maximum power point tracking					
Charge method	Three stage:Boost,Equalize,Float					
Start up time	⩽10s					
Dynamic response time to recover	⩽500us					
Quiescent dissipation	⩽2W					
Efficiency	⩾96.5%					
Identify range of battery voltage	48V:DC36V-60V			96V:DC72V-120V		
MPPT working Range	48V:DC65V-250V			96V:DC130V-300V		
Max PV input	7200W	8640W	9600W	14400W	17280W	19200W
Display	LCD+LED					
Input polarity reverse connection protection	Yes					
Output polarity reverse connection protection	Yes					
Low voltage protection	Yes					
High voltage protection	Yes					
Short circuit protection	Yes					
Over temperature protection	+85℃					
Cooling method	air cooling, fan speed is regulated by temperature, when internal temperature is low; when the controller stops working, the fan stops working					
Noicy	⩽50dB					
humidity	<95% (without condesing)					
Height	0~3000M					
Temperature	-20℃~+40℃					
Storage temperature	-40℃~+70℃					

*The above data is for reference. If there is any change, please refer to the real object.

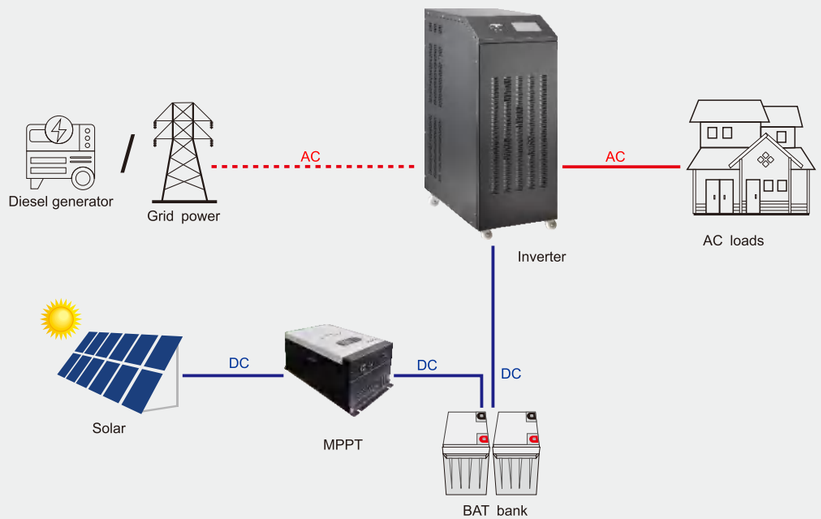
HVC Series MPPT SCC

Product features

- Intelligent max power point tracking tech
- DSP control tech with high efficiency
- Activated lithium battery
- PV wide voltage range input
- Three stage charging tech
- Multiple protection functions
- Floating charge voltage setting

Application

Application diagram



Technical Parameters

Mode	HVC50A	HVC60A	HVC100A	HVC120A
Rated current	50A	60A	100A	120A
Max current	51A	61A	101A	121A
System voltage	192V/220V/240V/360V/384V			
Size:(L*W*Hmm)	560*344*250			
package size (L*W*Hmm)	755*435*400			
N.W. (KG)	29	29.5	30	31.5
G.W.(KG)	41	41.5	42	42.5
Charge mode	MPPT Automatic maximum power point tracking			
Charge method	Three stage:Boost,Equalize,Float			
Start up time	⩽10s			
Dynamic response time to recover	⩽500us			
Quiescent dissipation	⩽2W			
Efficiency	⩾96.5%			
Identify range of battery voltage	192V：DC144V-240V 220V：DC160V-270V 240V：DC180V-300V 360V：DC270V-450V 384V：DC288V-480V			
MPPT working Range	192V：DC260V-450V 220V：DC260V-450V 240V：DC280V-450V 360V：DC450V-750V 384V：DC450V-750V			
Max PV input	192V：10KW/12KW/20KW/24KW 220V：11KW/13. 2KW/22KW/26. 4KW 240V：12KW/15KW/24KW/29KW 360V：18KW/22KW/36KW/44KW 384V：20KW/23KW/39KW/46KW			
Display	LCD+LED			
Input polarity reverse connection protection	Yes			
Output polarity reverse connection protection	Yes			
Low voltage protection	Yes			
High voltage protection	Yes			
Short circuit protection	Yes			
Over temperature protection	+85℃			
Cooling method	air cooling, fan speed is regulated by temperature, when internal temperature is low; when the controller stops working, the fan stops working			
Noicy	⩽50dB			
humidity	<95% (without condesing)			
Height	0~3000M			
Temperature	-20℃~+40℃			
Storage temperature	-40℃~+70℃			

*The above data is for reference. If there is any change, please refer to the real object.

LiFePO4 Lithium Battery

Product features

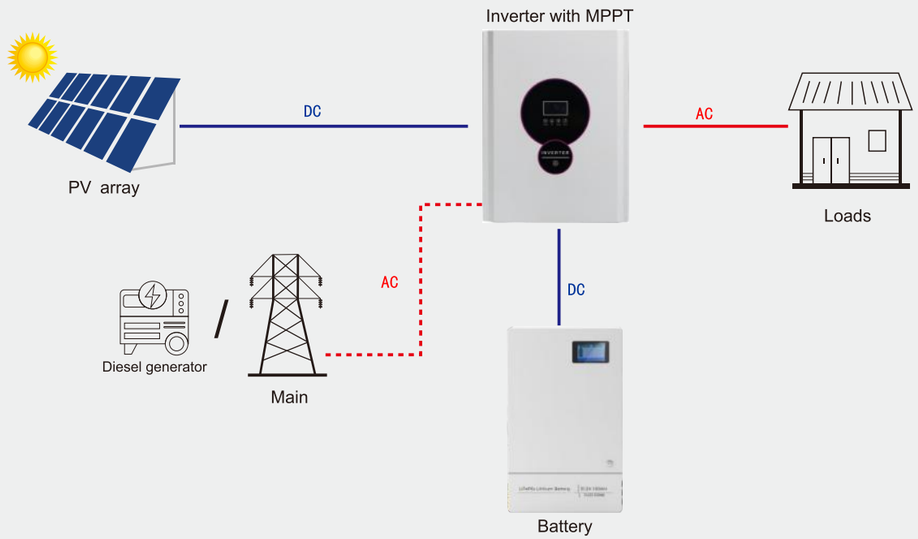
- Modular design,standardized production,strong commonality,easy installation,operation and maintenance.
- using lithium iron phosphate battery,low internal resistance,High rate,high safety,long life.
- Intelligent system,low loss,high conversion efficiency,strong stability,reliable operation.
- Support fast charging and discharging.Visual LCD display allows you to set operating parameters,view real-timedata and operating status,and accurately diagnose operating faults.
- Supports communication such as CAN and RS485,which can be used in various scenarios.

Three-level BMS can realize all-round monitoring and management in the system.

Using high-end battery cell with long cycle life and lifetime, the comprehensive operation cost is low.

Application

Application diagram



Technical Parameters

mode	51.2V100Ah	51.2V200Ah	51.2V300Ah
Rated Voltage	100Ah	200Ah	300Ah
Energy	5120Wh	10240Wh	15360Wh
Months Self Discharge	<3%		
Charge Efficiency	99.5%@0.2C		
Discharge Efficiency	96-99%@1C		
Internal resistance (Fully charged, 25°C)	≤200mΩ		
Cycle life	>3000 cycles @ 0.2C 100%D.O.D		
Capacity affected by temperature			
40° C	101%		
25° C	100%		
0° C	90%		
-10° C	75%		
Nominal operating temperature	25° C± 3° C (77° F± 5° F)		
Operating temperature range			
Discharge	-20°C~60°C (-4°F~140°F)		
Charge	0°C~45°C (32°F~113°F)		
Storage	0°C~40°C (32°F~104°F)		
Water Dust Resistance	IP50		
Charge Voltage	57V		
Standard Charge Mode (25°C±2°C, <75%RH)	0.2CA Constant Current to 57V, then Constant Voltage 57V until the current drops to 0.02CA, before use, rest 30 minutes		
Charge Current	50A	80A	100A
Maximum Charge Current	100A	150A	150A
Charge Cut off Voltage	57V	57V	57V
Continuous Discharge Current	100A	150A	200A
Maximum Pulse Current	150A (<1S)	200A (<1S)	250A (<1S)
Discharge Cut Off Voltage	46V	46V	46V
Communicate Protocol (optional)	RS232/RS485/CAN		
SOC (optional)	Screen/LED/PC Software		
Application connection	1 string 1 parallel		
Size:(L*W*Hmm)	370*160*600	500*160*850	625*230*1000
N.W. (KG)	42.2	90.2	122

*The above data is for reference. If there is any change, please refer to the real object.

research and development

continuous innovation

Quality Assurance

excellent service