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# PV Inverter Catalogue

Global Leading PV Inverter Solutions Provider



Total clean electricity generated 48000 GWh

30000m+ modern industrial park

13GW+ annual capacity

Global Leading PV Inverter Solutions Provider



Acquired Solar Division of



Fortune 500

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Sineng Electric (Stock Code: 300827) is a leading global high-tech enterprise specialized in power electronics products covering its business in power generation, power supply, distribution and power utilization fields. With advanced R&D, manufacturing, marketing, maintenance and service departments, it provides customers a wide range of solar inverter, energy storage and power quality control solutions. Acquiring the inverter business of Fortune 500 company in 2014, Sineng Electric has obtained the world-class power electronics technology platform.

R&D division is considered as the backbone of its leadership in market that's why company has established two R&D centers located in Shenzhen and Wuxi, an enterprise technology center, an enterprise academician workstation, a post-doctoral innovation practice base and a CNAS certification laboratory. The company possesses in-house testing center and a dynamic R&D team. In addition to Wuxi industrial park, Sineng has established a factory in Bangalore, India in 2018 to meet exponentially increased local demands.

Sineng will continue working on technological innovation to ensure cutting edge solution and best service.

# EP-2500/3125/3400-HA-UD

EP Series 1500V Outdoor Central Inverter



## More power generation

Max. efficiency 99%, Euro efficiency 98.7%  
Advanced three-level technology  
Max.DC/AC ratio up to 1.8



## Low system cost

DC 1500V system, low system cost  
Outdoor design without container Convenient  
for large block size PV plant  
IP65 Protection



## High reliability

Capacitor life prediction technology  
Key components at front side, easy for maintenance  
Current sensor for each DC input, more reliable for  
monitoring and control

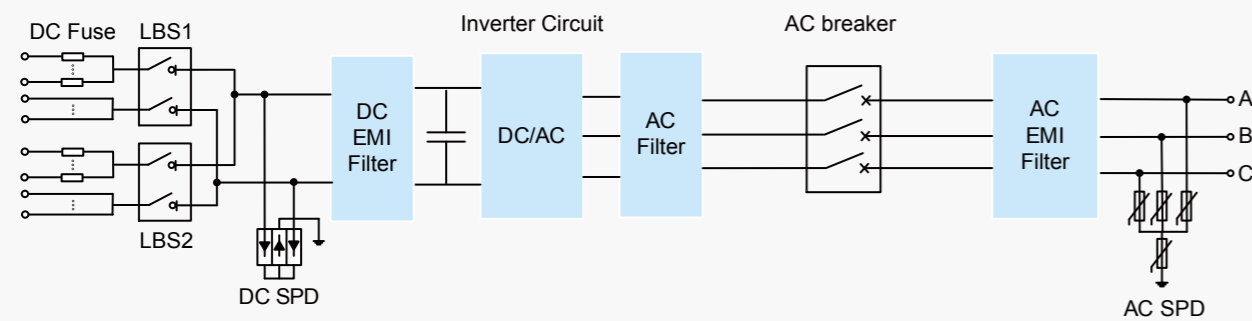


## Grid friendly

LVRT and HVRT function  
Active & reactive power dispatch



## Circuit



Input ( DC )	EP-2500-HA-UD	EP-3125-HA-UD	EP-3400-HA-UD
Max.PV input voltage	1500V	1500V	1500V
Max. input current	3260A	4075A	4075A
MPP voltage range for nominal power	900~1300V	900~1300V	900~1300V
Number of MPPT trackers	1	1	1
Max. Number of DC inputs	14~20	16~22	16~22
Output ( AC )			
Rated AC output power	2500kVA@50 C	3125kVA@50 C	3400kVA@45 C
Max. AC output power	2875kVA@25 C	3594kVA@25 C	3594kVA@25 C
Rated grid voltage	630V	630V	630V
Grid voltage range	536~693V	536~693V	536~693V
Rated output current	2292A	2864A	3116A
Max. output current	2635A	3294A	3294A
Rated grid frequency/range	50Hz±5Hz, 60Hz±5Hz	50Hz±5Hz, 60Hz±5Hz	50Hz±5Hz, 60Hz±5Hz
Output current harmonic (at nominal power)	<3%	<3%	<3%
DC current injection	<0.5%In	<0.5%In	<0.5%In
Power factor at nominal power/range	>0.99/0.8 lagging to 0.8 leading	>0.99/0.8 lagging to 0.8 leading	>0.99/0.8 lagging to 0.8 leading
Protection			
DC input protection		Load break switch+fuse	
AC output protection		Circuit breaker	
Overvoltage protection		DC Type II/AC Type II	
Leakage current monitoring		Yes	
Ground fault monitoring		Yes	
Grid monitoring		Yes	
Insulation monitoring		Yes	
Overheat protection		Yes	
Night SVG function		Yes	
Anti-PID function		Optional	
Efficiency			
Max. efficiency		99.00%	
EU efficiency		98.70%	
General date			
Self-consuming at runtime		<4000W	
Self-consuming in standby/night		<200W/<100W	
Protection level		IP65	
Temperature	-30 C~+60 C (>50 C derating)	-30 C~+60 C (>50 C derating)	-30 C~+60 C (>45 C derating)
Cooling mode		Temperature controlled forced air cooling	
Max.operating altitude		4000m(>3000m derating)	
Display		LCD	
Communication port		RS485/Ethernet (Optional)	
Certificates and approvals (more available on request)		IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC61000	
Dimensions (W×H×D)		2650×2250×1800mm	
Weight		2700kg	

# EP-2500/3125/3400-HA-UD/10~35

MV Turnkey Solution for 1500V Utility PV Plant



## More power generation

Inverter Max. efficiency 99%, Euro efficiency 98.7%  
1500Vdc PV system reduce power loss



## Low System Cost

Convenient for large block size PV plant  
Integrated MV transformer and switchgear  
High DC/AC ratio up to 1.8



## High Reliability

Capacitor life prediction technology  
Key components at front side, easy for maintenance  
Current sensor for each DC input, more reliable for monitoring and control

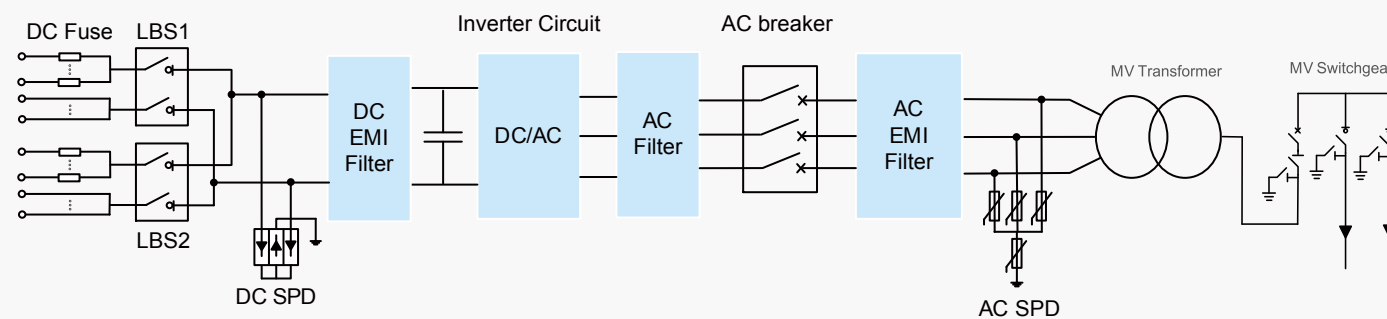


## Grid friendly

Adjustable reactive power  
Low harmonics and fast response for grid regulation



## Circuit



Input ( DC )	EP-2500-HA-UD/10~35	EP-3125-HA-UD/10~35	EP-3400-HA-UD/10~35
Max. PV input voltage	1500V	1500V	1500V
Max. input current	3260A	4075A	4075A
MPP voltage range for nominal power	900~1300V	900~1300V	900~1300V
Number of MPPT trackers	1	1	1
Number of DC inputs	16~20	16~22	16~22
Output ( AC )			
Rated AC output power	2500kVA@50 C	3125kVA@50 C	3400kVA@45 C
Max. AC output power	2875kVA@25 C	3594kVA@25 C	3594kVA@25 C
AC voltage range	10~35kV	10~35kV	10~35kV
Rated grid frequency/range	50 Hz/ 45~55 Hz, 60Hz/ 55~65 Hz	50 Hz/ 45~55 Hz, 60Hz/ 55~65 Hz	50 Hz/ 45~55 Hz, 60Hz/ 55~65 Hz
Output current harmonic(at nominal power)	< 3 %	< 3 %	<3%
DC current injection	< 0.5% In	< 0.5% In	<0.5%In
Power factor at nominal power/range	>0.99/ 0.8 lagging to 0.8 leading	>0.99/ 0.8 lagging to 0.8 leading	>0.99/ 0.8 lagging to 0.8 leading
Protection			
DC input protection		Load break switch+fuse	
AC output protection		Circuit breaker	
AC MV output protection		Circuit breaker	
Overvoltage protection		DC Type II / AC Type II	
Leakage current monitoring		Yes	
Grid monitoring/Ground fault monitoring		Yes/Yes	
Insulation monitoring		Yes	
Overheat protection		Yes	
Night SVG function		Optional	
Anti-PID function		Optional	
Efficiency			
Max. efficiency		99.00%	
EU efficiency		98.70%	
Transformer			
Transformer Rated power	2500kVA	3125kVA	3125kVA
Transformer Max. power	2875kVA	3594kVA	3594kVA
LV / MV Voltage	0.63/10~35kV	0.63/10~35kV	0.63/10~35kV
Transformer Vector	Dy11	Dy11	Dy11
Transformer cooling type	ONAN (Oil Natural Air Natural)	ONAN (Oil Natural Air Natural)	ONAN (Oil Natural Air Natural)
General date			
Weight	15t	15t	15t
Protection level	Inverter:IP65, Others:IP54	Inverter:IP65, Others:IP54	Inverter:IP65, Others:IP54
Auxiliary power supply	Standard: 5kVA, Optional: max.40kVA	Standard: 5kVA, Optional: max.40kVA	Standard: 5kVA, Optional: max.40kVA
Temperature	-30~+ 60 C ( >50 C derating)	-30~+ 60 C ( >50 C derating)	-30~+ 60 C ( >45 C derating)
Allowed humidity(non condensing)	0 - 95 %	0 - 95 %	0 - 95 %
Cooling mode	Temperature controlled forced air cooling	Temperature controlled forced air cooling	Temperature controlled forced air cooling
Max.operating altitude	2000m(standard) / > 2000m (optional)	2000m(standard) / > 2000m (optional)	2000m(standard) / > 2000m (optional)
Display	LCD	LCD	LCD
Communication port	RS485/Ethernet	RS485/Ethernet	RS485/Ethernet

# EP-5000/6250/6800-HA-UD/20~35

MV Turnkey Solution for 1500V Utility PV Plant



## More power generation

Inverter Max. efficiency 99%, Euro efficiency 98.7%  
1500Vdc PV system reduce power loss



## Low system cost

Convenient for large block size PV plant  
Integrated MV transformer and switchgear  
High DC/AC ratio up to 1.8



## High reliability

Capacitor life prediction technology  
Key components at front side, easy for maintenance  
Current sensor for each DC input, more reliable for monitoring and control

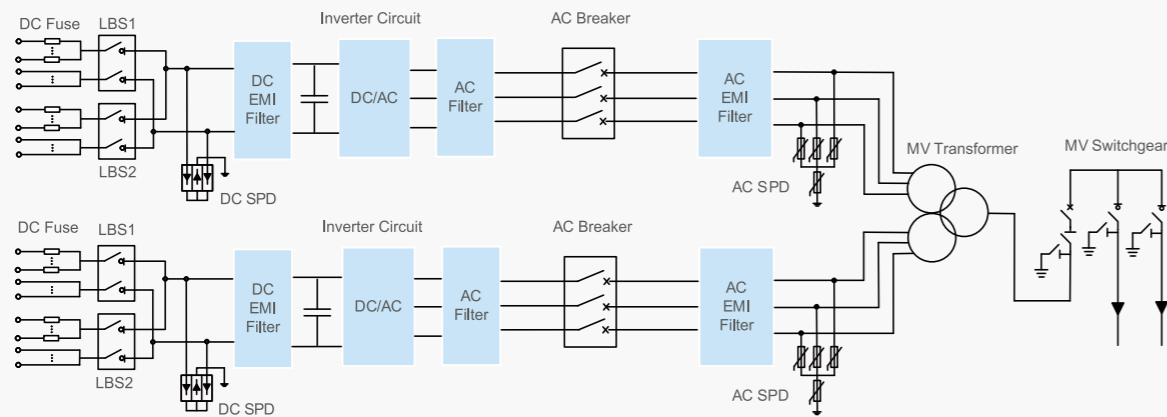


## Grid friendly

Adjustable reactive power  
Low harmonics and fast response for grid regulation



## Circuit



Input (DC)	EP-5000-HA-UD/20~35	EP-6250-HA-UD/20~35	EP-6800-HA-UD/20~35
Max. PV input voltage	1500V	1500V	1500V
Max. input current	3260A*2	4075A*2	4075A*2
MPP voltage range for nominal power	900~1300V	900~1300V	900~1300V
Number of MPPT trackers	2	2	2
Number of DC inputs	(14~20)*2	(16~22)*2	(16~22)*2
Output (AC)			
Rated AC output power	2*2500kVA@50 C	2*3125kVA@50 C	2*3400kVA@45 C
Max. AC output power	2*2875kVA@25 C	2*3594kVA@25 C	2*3594kVA@25 C
AC voltage range	20~35kV	20~35kV	20~35kV
Rated grid frequency/range	50 Hz/ 45~55 Hz, 60Hz/ 55~65 Hz	50 Hz/ 45~55 Hz, 60Hz/ 55~65 Hz	50 Hz/ 45~55 Hz, 60Hz/ 55~65Hz
Output current harmonic(at nominal power)	< 3 %	< 3 %	< 3 %
DC current injection	< 0.5% In	< 0.5% In	< 0.5% In
Power factor at nominal power/range	>0.99/ 0.8 lagging to 0.8 leading	>0.99/ 0.8 lagging to 0.8 leading	>0.99/ 0.8 lagging to 0.8 leading
Protection			
DC input protection		Load break switch+fuse	
AC output protection		Circuit breaker	
AC MV output protection		Circuit breaker	
Overvoltage protection		DC Type II / AC Type II	
Leakage current monitoring		Yes	
Grid monitoring/ground fault monitoring		Yes/Yes	
Insulation monitoring		Yes	
Overheat protection		Yes	
Night SVG function		Optional	
Anti-PID function		Optional	
Efficiency			
Max. efficiency		99.00%	
EU efficiency		98.70%	
Transformer			
Transformer Rated power	5000 kVA	6250 kVA	6800kVA
Transformer Max. power	5750 kVA	7188 kVA	7188 kVA
LV / MV Voltage	0.63-0.63/20~35kV	0.63-0.63/20~35kV	0.63-0.63/20~35kV
Transformer Vector	Dy11y11	Dy11y11	Dy11y11
Transformer cooling type	ONAN (Oil Natural Air Natural)	ONAN (Oil Natural Air Natural)	ONAN (Oil Natural Air Natural)
Transformer			
Weight	25t	25t	25t
Protection level	Inverter:IP65, Others:IP54	Inverter:IP65, Others:IP54	Inverter:IP65, Others:IP54
Auxiliary power supply	Standard:5kVA, Optional: max.40kVA	Standard:5kVA, Optional: max.40kVA	Standard:5kVA, Optional: max.40kVA
Temperature	-30~+60 C (>50 C derating)	-30~+60 C (>50 C derating)	-30~+60 C (>45 C derating)
Allowed humidity(non condensing)	0 - 95 %	0 - 95 %	0 - 95 %
Cooling mode	Temperature controlled forced air cooling	Temperature controlled forced air cooling	Temperature controlled forced air cooling
Max.operating altitude	2000m(standard) / > 2000m(optional)	2000m(standard) / > 2000m (optional)	2000m(standard) / > 2000m (optional)
Display	LCD	LCD	LCD
Communication port	RS485/Ethernet	RS485/Ethernet	RS485/Ethernet

# EP-1250-HA

EP Series 1500V Central Inverter



## More power generation

Max. efficiency 99%, Euro efficiency 98.7%  
1.1 Pn overload capacity at 45 °C  
Full power operation without derating at 50 °C



## Low system cost

Integrated DC power distribution function  
Integrated reactive power compensation  
High DC/AC ratio up to 1.8



## High reliability

Key components on line monitoring  
Redundancy design for cooling fans and power supply  
Industry oriented design for harsh environment

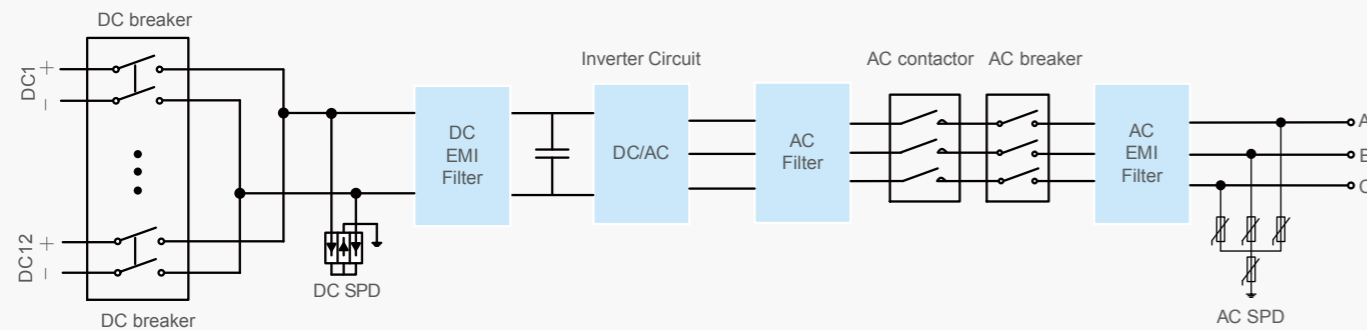


## Grid friendly

LVRT and HVRT function  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1500V
Max. input current	1754A
MPP voltage range for nominal power	800V~1300V
Number of MPPT trackers	1
Number of DC inputs	8~12

## Output (AC)

Rated output power	1250kW@50 °C
Max. output power	1375kW@45 °C
Rated grid voltage	550V
Grid voltage range	468V~605V
Max. output current	1443A
Rated grid frequency / range	50 Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	< 3%
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

## Protection

DC input protection	Circuit breaker (Load break switch+fuse optional)
AC output protection	Circuit breaker
Oversvoltage protection	DC Type II/AC Type II
Leakage current monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Reactive power compensation	Optional
Anti-PID function	Optional

## Efficiency

Max. efficiency	99.00%
EU efficiency	98.70%

## General data

Self-consuming at runtime	<1220W
Self-consuming in standby	<40W
Protection level	IP20
Temperature	-30 °C~+60 °C (>50 °C derating)
Allowed humidity(non condensing)	0~95%
Cooling mode	Temperature controlled forced air cooling
Altitude at full load	4000m(>3000m derating)
Display	Touch screen
Communication port	RS485/Ethernet
Certificates and approvals (more available on request)	IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC61000
Dimensions (W×H×D)	2226×2050×725mm
Weight	1250kg

# EP-2500-HA-OD

EP Series 1500V Central Inverter



## More power generation

Max. efficiency 99%, Euro efficiency 98.7%  
Full power operation without derating at 50°C  
1500Vdc PV system reduce power loss



## Low system cost

IP54 container solution without house  
Auxiliary power supply and communication integrated  
Integrated reactive power compensation  
High DC/AC ratio up to 1.8



## High reliability

Key components online monitoring  
Redundancy design for cooling fans and control power supply  
Industry oriented design for harsh environment

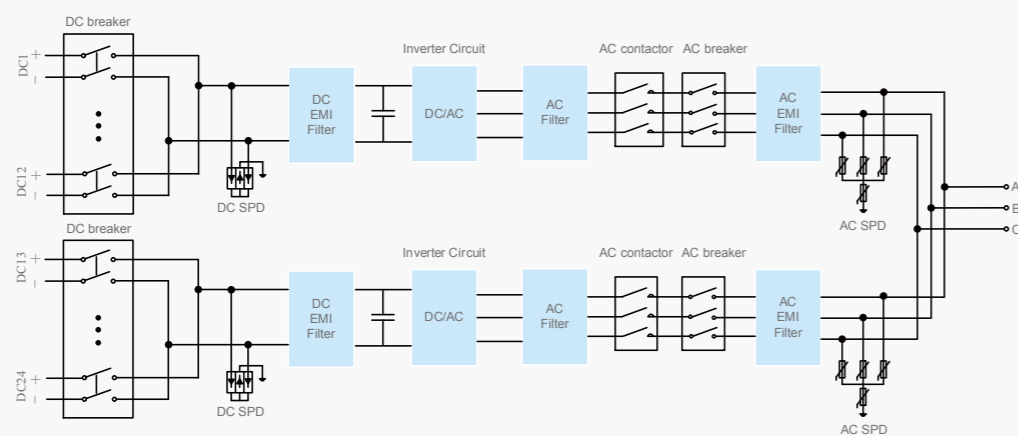


## Grid friendly

LVRT and HVRT function  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1500V
Max. input current	2×1754A
MPP voltage range for nominal power	800~1300V
Number of MPPT trackers	2
Number of DC inputs	16~24

## Output (AC)

Rated output power	2500kW@50°C
Max. output power	2750kW@45°C
Rated grid voltage	550V
Grid voltage range	468~605V
Max. output current	2×1443A
Rated grid frequency / range	50 Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

## Protection

DC input protection	Circuit breaker (Load break switch+fuse optional)
AC output protection	Circuit breaker
Overvoltage protection	DC Type II/AC Type II
Leakage current monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Reactive power compensation	Optional
Anti-PID function	Optional
Smoke detecting	Yes

## Efficiency

Max. efficiency	99.00%
EU efficiency	98.70%

## General date

Self-consuming at runtime	<2500W
Self-consuming in standby	<80W
Protection level	IP54
temperature	-30°C~+60°C (>50°C derating)
Cooling mode	Temperature controlled forced air cooling
Altitude at full load	4000m (>3000m derating)
Display	Touch screen
Communication port	RS485/Ethernet
Certificates and approvals (more available on request)	IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC 61000
Dimensions (W×H×D)	2991×2890×2438mm
Weight	6500kg

# EP-2500-HA-OD/10-35

MV Turnkey Solution for 1500V Utility PV Plant



## More power generation

Max. efficiency 99%, Euro efficiency 98.7%  
Full power operation without derating at 50 C  
1500Vdc PV system reduce power loss



## Low system cost

IP54 container solution Integrated with MV transformer  
Auxiliary power supply and communication integrated  
Integrated reactive power compensation  
High DC/AC ratio up to 1.8



## High reliability

Key components online monitoring  
Redundancy design for cooling fans and control power supply  
Industry oriented design for harsh environment

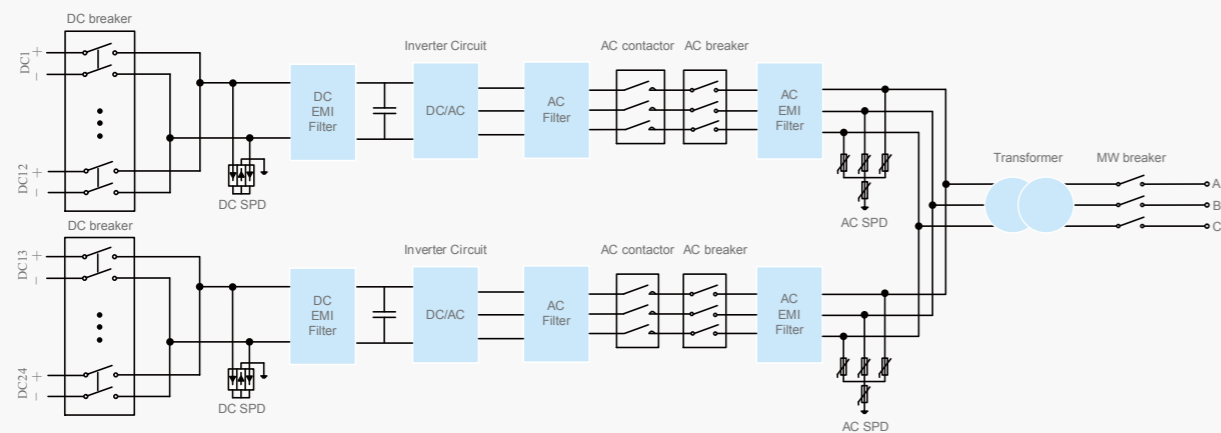


## Grid friendly

LVRT and HVRT function  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1500V
Max. input current	3508A
MPP voltage range for nominal power	800~1300V
Number of MPPT trackers	2
Number of DC inputs	20~24

## Output (AC)

Rated output power	2500kW@50 C
Max. output power	2750kW@45 C
Rated grid voltage	10-35kV
Rated grid frequency / range	50 Hz/45~55 Hz, 60Hz/55~65 Hz
Output current harmonic(at nominal power)	<3%
DC current injection	< 0.5% In
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

## Protection

DC input protection	Circuit breaker (Load break switch+fuse optional)
AC MV output protection	MV breaker
Overvoltage protection	DC Type II/AC Type II
Leakage current monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Reactive power compensation	Optional
Anti-PID function	Optional
Smoke detecting	Yes

## Efficiency

Max. efficiency	99.00%
EU efficiency	98.70%

## General date

Protection level	IP54
temperature	-30 C ~+60 C (>50 C derating)
Transformer	Oil-immersed transformer
Cooling mode	Temperature controlled forced air cooling
Altitude at full load	4000m (>2000m derating)
Display	LCD
Communication port	RS485/Ethernet
Dimensions (W×H×D)	6058×2890×2438mm
Weight	14t



# EP-1250-AI

## EP Series 1000V Central Inverter



### More power generation

Max. efficiency 99%, Euro efficiency 98.7%  
1.1 Pn overload capacity at 45 C  
Full power operation without derating at 50 C



### Low system cost

Integrated DC power distribution function  
Integrated reactive power compensation  
High DC/AC ratio up to 1.5



### High reliability

Key components online monitoring  
Redundancy design for cooling fans and control power supply  
Industry oriented design for harsh environment

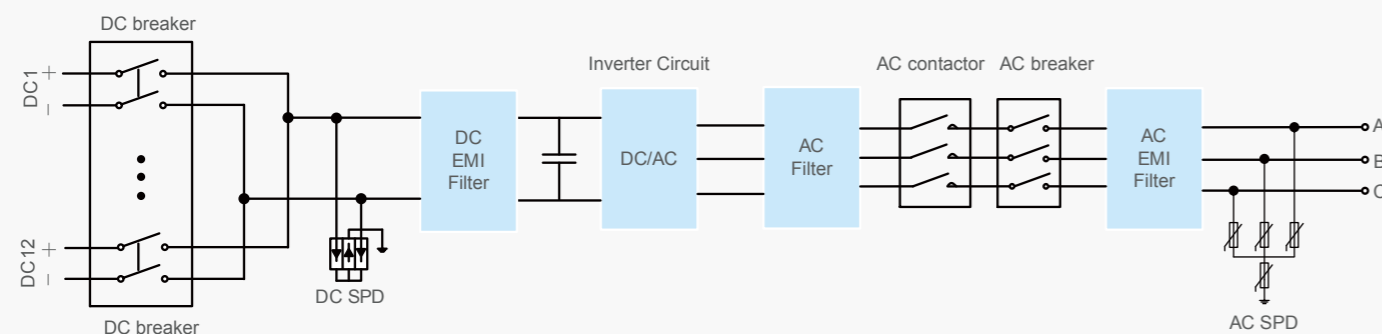


### Grid friendly

LVRT and HVRT function  
Low harmonics and fast response for grid regulation



## Circuit



### Input (DC)

Max. PV input voltage	1000V
Max. input current	2422A
MPP voltage range for nominal power	600~850V
Number of MPPT trackers	1
Number of DC inputs	8~12

### Output (AC)

Rated output power	1250kW@50 C
Max. output power	1437kW@45 C
Rated grid voltage	415V
Grid voltage range	340~480V
Max. output current	2000A
Rated grid frequency / range	50 Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	< 3%
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

### Protection

DC input protection	Circuit breaker (Load break switch+fuse optional)
AC output protection	Circuit breaker
Overvoltage protection	DC Type II/AC Type II
Leakage current monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Reactive power compensation	Optional
Anti-PID function	Optional

### Efficiency

Max. efficiency	99.00%
EU efficiency	98.70%

### General date

Self-consuming at runtime	<1780W
Self-consuming in standby	<40W
Protection level	IP20
Temperature	- 30 C~+ 60 C ( >50 C derating)
Allowed humidity(non condensing)	0 - 95%
Cooling mode	Temperature controlled forced air cooling
Altitude at full load	4000m(>3000m derating)
Display	Touch screen
Communication port	RS485/Ethernet
Certificates and approvals (more available on request)	IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC 61000
Dimensions (WxHxD)	2400x2000x750mm
Weight	1570kg

# EP-2500-AI-OD

EP Series 1000V Central Inverter



## More power generation

Max. efficiency 99%, Euro efficiency 98.7%  
1.1 Pn overload capacity at 45 °C  
Full power operation without derating at 50 °C



## Low system cost

IP54 container solution without house  
Auxiliary power supply and communication integrated  
Integrated reactive power compensation  
High DC/AC ratio up to 1.8



## High reliability

Key components online monitoring  
Redundancy design for cooling fans and control power supply  
Industry oriented design for harsh environment

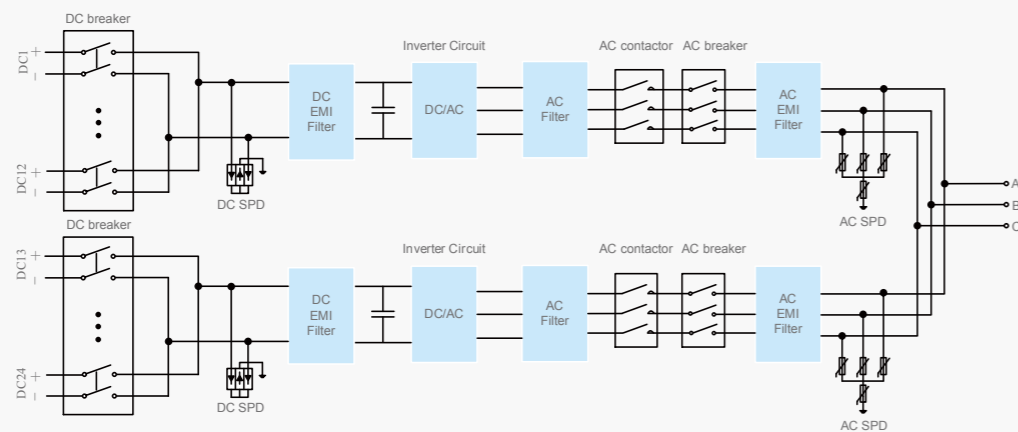


## Grid friendly

LVRT and HVRT function  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1000V
Max. input current	4844A
MPP voltage range for nominal power	600~850V
Number of MPPT trackers	2
Number of DC inputs	16~24

## Output (AC)

Rated output power	2500kW@50 °C
Max. output power	2874kW@45 °C
Rated grid voltage	415V
Grid voltage range	340~480V
Max. output current	4000A
Rated grid frequency / range	50 Hz/45~55 Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	< 3 %
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

## Protection

DC input protection	Circuit breaker (Load break switch+fuse optional)
AC output protection	Circuit breaker
Overvoltage protection	DC Type II/AC Type II
Leakage current monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Reactive power compensation	Optional
Anti-PID function	Optional
Smoke detecting	Yes

## Efficiency

Max. efficiency	99.00%
EU efficiency	98.70%

## General date

Self-consuming at runtime	<3560W
Self-consuming in standby	<80W
Protection level	IP54
temperature	-30 °C ~+60 °C (>50 °C derating)
Cooling mode	Temperature controlled forced air cooling
Altitude at full load	4000m (>3000m derating)
Display	Touch screen
Communication port	RS485/Ethernet
Certificates and approvals (more available on request)	IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC 61000
Dimensions (WxHxD)	2991x2890x2438mm
Weight	5050kg

# EP-2500-AI-OD/10-35

MV Turnkey Solution for 1000V Utility PV Plant



## More power generation

Max. efficiency 99%, Euro efficiency 98.7%  
1.1Pn overload capacity at 45 °C  
Full power operation without derating at 50 °C



## Low system cost

IP54 container solution Integrated with MV transformer  
Auxiliary power supply and communication integrated  
Integrated reactive power compensation  
High DC/AC ratio up to 1.8



## High reliability

Key components online monitoring  
Redundancy design for cooling fans and control power supply  
Industry oriented design for harsh environment

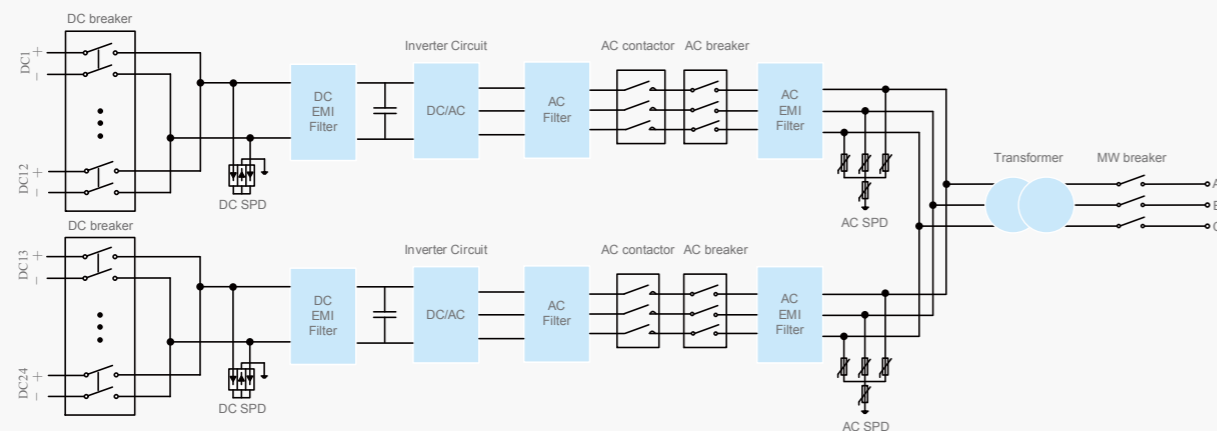


## Grid friendly

LVRT and HVRT function  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1000V
Max. input current	4844
MPP voltage range for nominal power	600-850V
Number of MPPT trackers	2
Number of DC inputs	16-24

## Output (AC)

Rated output power	2500kW@50 °C
Max. output power	2750kW@45 °C
Rated grid voltage	10-35kV
Rated grid frequency / range	50 Hz/45-55Hz, 60Hz/55-65 Hz
Output current harmonic(at nominal power)	<3%
DC current injection	< 0.5% In
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

## Protection

DC input protection	Circuit breaker (Load break switch+fuse optional)
AC MV output protection	MV breaker
Overvoltage protection	DC Type II/AC Type II
Leakage current monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Reactive power compensation	Optional
Anti-PID function	Optional
Smoke detecting	Yes

## Efficiency

Max. efficiency	99.00%
EU efficiency	98.70%

## General data

Protection level	IP54
temperature	-30 °C ~+60 °C (>50 °C derating)
Transformer	Oil-immersed transformer
Cooling mode	Temperature controlled forced air cooling
Altitude at full load	4000m (>2000m derating)
Display	LCD
Communication port	RS485/Ethernet
Dimensions (WxHxD)	6058x2890x2438mm
Weight	14t

# SP-250K-H1

## SP Series String Inverter

**More power generation**  
 Max. efficiency 99%, Euro efficiency 98.80%  
 12MPPTs for tracking maximum PV power  
 Supports bifacial PV modules with max. PV current 15A

**Low system cost**  
 Up to 24 PV strings  
 Support aluminum cable access, saving cable costs  
 Support PLC communication, save communication cable

**High reliability**  
 Cooling fan with IP68 protection level  
 Integrated string monitoring function  
 Standard connection terminal for quick installation

**Grid friendly**  
 Active power derating and reactive power adjustable  
 Low harmonics and fast response for grid regulation



### Input (DC)

Max. PV input voltage	1500V
Max. input current	30A*12
Rated input voltage	1080V
MPP voltage range	500~1500V
MPP voltage range for nominal power	880~1300V
Number of MPPT trackers	12
Max. number of PV strings per MPPT	2

### Output (AC)

Rated output power	250kW@30 C /225kW@40 C /200kW@50 C
Max. output power	250kW
Rated grid voltage	800V
Grid voltage range	680~880V
Max. output current	180.4A
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging

### Protection

DC reverse connection protection	Yes
Overvoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes

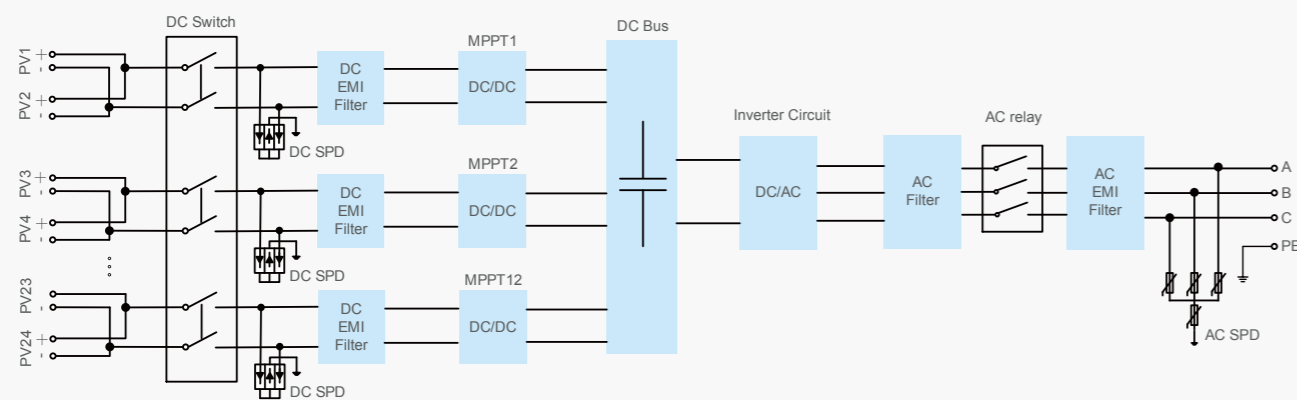
### Efficiency

Max. efficiency	99.00%
EU efficiency	98.80%

### General Data

Isolation method	Transformerless
Self-consuming in night	<2W
Protection level	IP66
Noise	<60dB
Temperature	-30°C~+60°C
Allowed humidity(non condensing)	0-100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:PLC
Dimensions (WxHxD)	1200x690x352mm
Weight	105kg

### Circuit



# SP-250K-INH

## SP Series String Inverter



### More power generation

Max. efficiency 99%, Euro efficiency 98.80%  
12MPPTs for tracking maximum PV power  
Supports bifacial PV modules with max. PV current 15A



### Low system cost

Up to 24 PV strings  
Support aluminum cable access, saving cable costs  
Support PLC communication, save communication cable



### High reliability

Cooling fan with IP68 protection level  
Integrated string monitoring function  
Standard connection terminal for quick installation

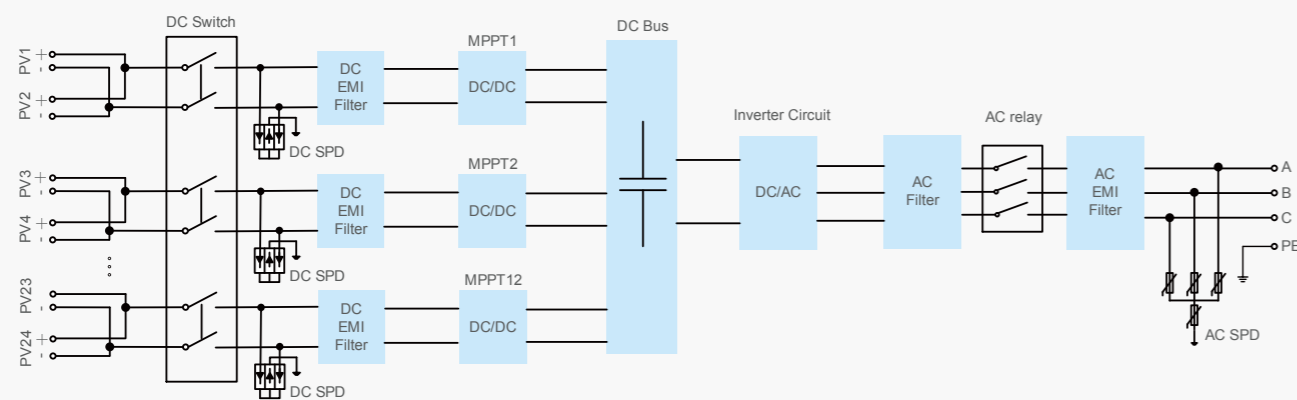


### Grid friendly

Active power derating and reactive power adjustable  
Low harmonics and fast response for grid regulation



## Circuit



### Input (DC)

Max. PV input voltage	1500V
Max. input current	30A*12
Rated input voltage	1080V
MPP voltage range	500~1500V
MPP voltage range for nominal power	880~1300V
Number of MPPT trackers	12
Max. number of PV strings per MPPT	2

### Output (AC)

Rated output power	250kW@30 C /225kW@40 C /200kW@50 C
Max. output power	250kW
Rated grid voltage	800V
Grid voltage range	680~880V
Max. output current	180.4A
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging

### Protection

DC reverse connection protection	Yes
Overvoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes

### Efficiency

Max. efficiency	99.00%
EU efficiency	98.80%

### General Data

Isolation method	Transformerless
Self-consuming in night	<2W
Protection level	IP66
Noise	<60dB
Temperature	-30°C~+60°C
Allowed humidity(non condensing)	0-100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:PLC
Dimensions (WxHxD)	1200x690x352mm
Weight	105kg

# SP-136K

## SP Series String Inverter



### More power generation

Max. efficiency 98.7%, Euro efficiency 98.5%  
12 MPPTs for tracking maximum PV power  
Supports bifacial PV modules with max. PV current 13A



### Low system cost

Up to 20 PV strings  
Support aluminum cable access, saving cable costs  
Support WIFI communication, save communication cable



### High reliability

Cooling fan with IP68 protection level  
Integrated string monitoring function  
Standard connection terminal for quick installation

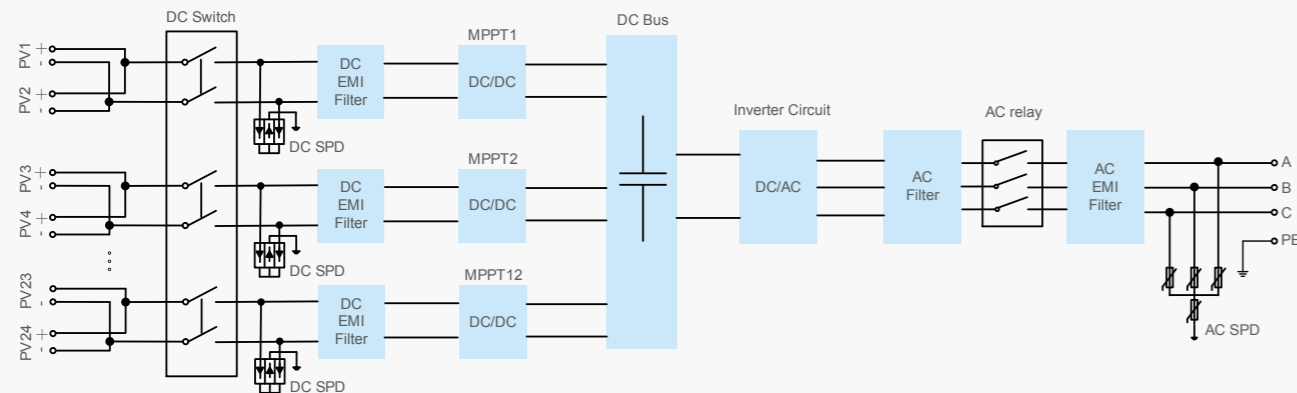


### Grid friendly

Adjustable reactive power  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1100V
Max. input current	26A*12
Rated input voltage	600V
MPP voltage range	200~1000V
MPP voltage range for nominal power	600~850V
Number of MPPT trackers	12
Max. number of PV strings per MPPT	2

## Output (AC)

Rated output power	150kW@45 °C/136kW@50 °C
Max. output power	136kW
Rated grid voltage	540V
Grid voltage range	430~625V
Max. output current	161A
Rated grid frequency / range	50Hz/45~55Hz,60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging

## Protection

DC reverse connection protection	Yes
Overvoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes

## Efficiency

Max. efficiency	98.70%
EU efficiency	98.50%

## General Data

Isolation method	Transformerless
Self-consuming in night	<2W
Protection level	IP66
Noise	<60dB
Temperature	-30 °C ~ +60 °C
Allowed humidity(non condensing)	0-100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:WIFI
Dimensions (WxHxD)	1018x630x339mm
Weight	95kg

# SP-110K-L

## SP Series String Inverter



### More power generation

Max. efficiency 98.7%, Euro efficiency 98.5%  
10 MPPTs for tracking maximum PV power  
Supports bifacial PV modules with max. PV current 13A



### Low system cost

Up to 20 PV strings  
Support aluminum cable access, saving cable costs  
Support WIFI communication, save communication cable



### High reliability

Cooling fan with IP68 protection level  
Integrated string monitoring function  
Standard connection terminal for quick installation

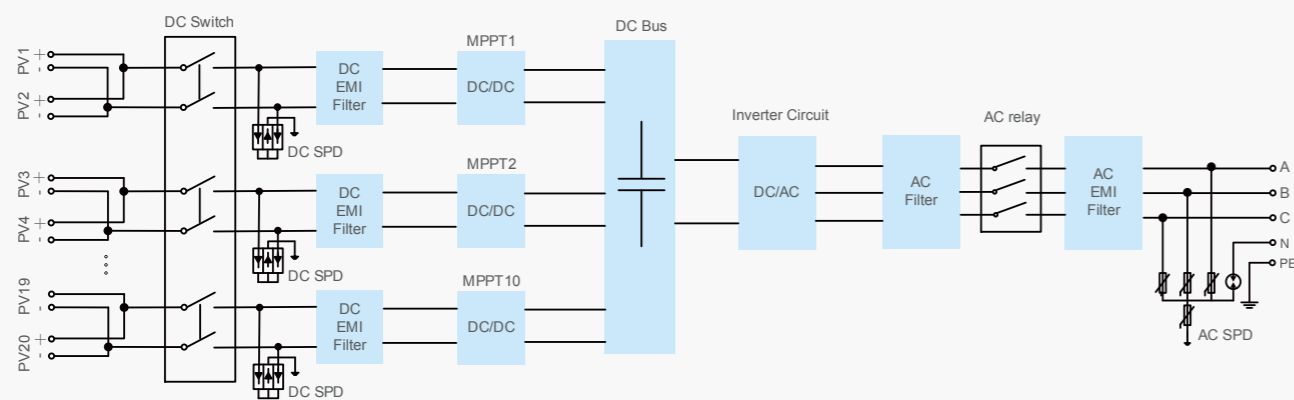


### Grid friendly

Adjustable reactive power  
Low harmonics and fast response for grid regulation



## Circuit



### Input (DC)

Max. PV input voltage	1100V
Max. input current	26A*10
Rated input voltage	600V
MPP voltage range	200~1000V
MPP voltage range for nominal power	550~850V
Number of MPPT trackers	10
Max. number of PV strings per MPPT	2

### Output (AC)

Rated output power	110kW@45 C/100kW@50 C
Max. output power	110kW
Rated grid voltage	380V/400V
Grid voltage range	340~440V
Max. output current	167A@380V, 158.8A@400V
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging

### Protection

DC reverse connection protection	Yes
Overvoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes

### Efficiency

Max. efficiency	98.70%
EU efficiency	98.50%

### General Data

Isolation method	Transformerless
Self-consuming in night	<2W
Protection level	IP66
Noise	<60dB
Temperature	-30 C ~ +60 C
Allowed humidity(non condensing)	0-100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:WIFI
Dimensions (WxHxD)	1018x630x339mm
Weight	85kg

# SP-70K

## SP Series String Inverter



### More power generation

Max. efficiency 99%, Euro efficiency 98.6%  
3 MPPTs for tracking maximum PV power



### Low system cost

Up to 12 PV strings  
High DC/AC ratio for lower LCOE



### High reliability

Cooling fan with IP68 protection level  
String monitoring function, easy for quick trouble shooting

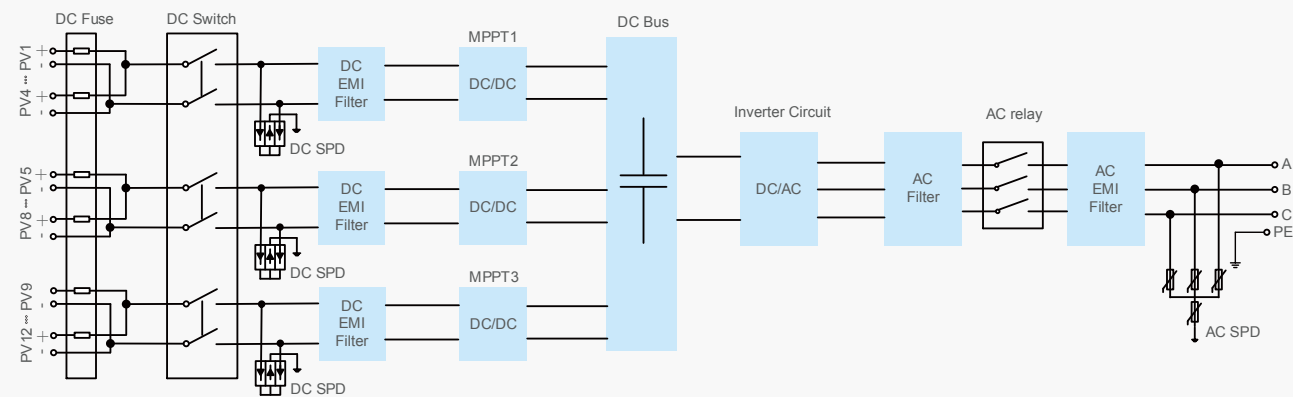


### Grid friendly

Active power derating and reactive power adjustable  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1100V
Max. input current	44A*3
Rated input voltage	760V
MPP voltage range	200~1000V
MPP voltage range for nominal power	625~850V
Number of MPPT trackers	3
Max. number of PV strings per MPPT	4

## Output (AC)

Rated output power	77kW@45 C /70kW@50 C
Max. output power	77kW
Rated grid voltage	500V
Grid voltage range	425~550V
Max. output current	89A
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging

## Protection

DC reverse connection protection	Yes
Overvoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes

## Efficiency

Max. efficiency	99.00%
EU efficiency	98.60%

## General Data

Isolation method	Transformerless
Self-consuming in night	<5W
Protection level	IP65
Noise	<60dB
Temperature	-30 C ~ +60 C
Allowed humidity(non condensing)	0-100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:PLC
Dimensions (WxHxD)	585x853x295mm
Weight	72kg



# SP-60K-L

## SP Series String Inverter



### More power generation

Max. efficiency 98.8%, Euro efficiency 98.5%  
3 MPPTs for tracking maximum PV power



### Low system cost

Up to 12 PV strings  
High DC/AC ratio for lower LCOE



### High reliability

Cooling fan with IP68 protection level  
String monitoring function, easy O&M

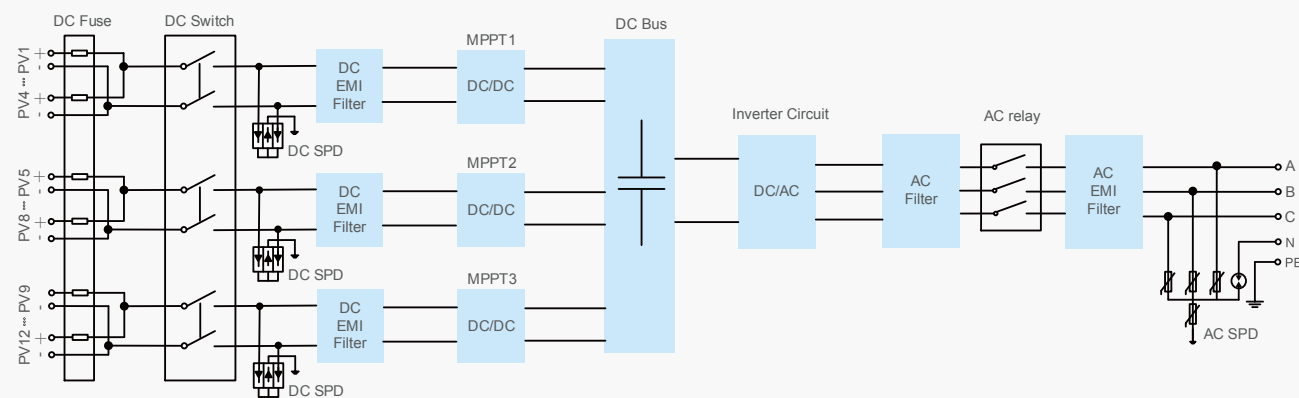


### Grid friendly

Adjustable reactive power  
Low harmonics and fast response for grid regulation



## Circuit



## Input (DC)

Max. PV input voltage	1100V
Max. input current	44A*3
Rated input voltage	620V
MPP voltage range	200~1000V
MPP voltage range for nominal power	520~850V
Number of MPPT trackers	3
Max. number of PV strings per MPPT	4

## Output (AC)

Rated output power	66kW@45 C /60kW@50 C
Max. output power	66kW
Rated grid voltage	380V/400V
Grid voltage range	340~440V
Max. output current	100.3A@380V,95.2A@400V
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging

## Protection

DC reverse connection protection	Yes
Oversoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes

## Efficiency

Max. efficiency	98.80%
EU efficiency	98.50%

## General Data

Isolation method	Transformerless
Self-consuming in night	<2W
Protection level	IP65
Noise	<60dB
Temperature	-30 C ~ +60 C
Allowed humidity(non condensing)	0~100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:WIFI
Dimensions (WxHxD)	585x853x295mm
Weight	72kg

# SP-50K-L

## SP Series String Inverter



**More power generation**  
Max. efficiency 98.8%, Euro efficiency 98.60%  
3 MPPTs for tracking maximum PV power



**Low system cost**  
Up to 10 PV strings  
High DC/AC ratio for lower LCOE



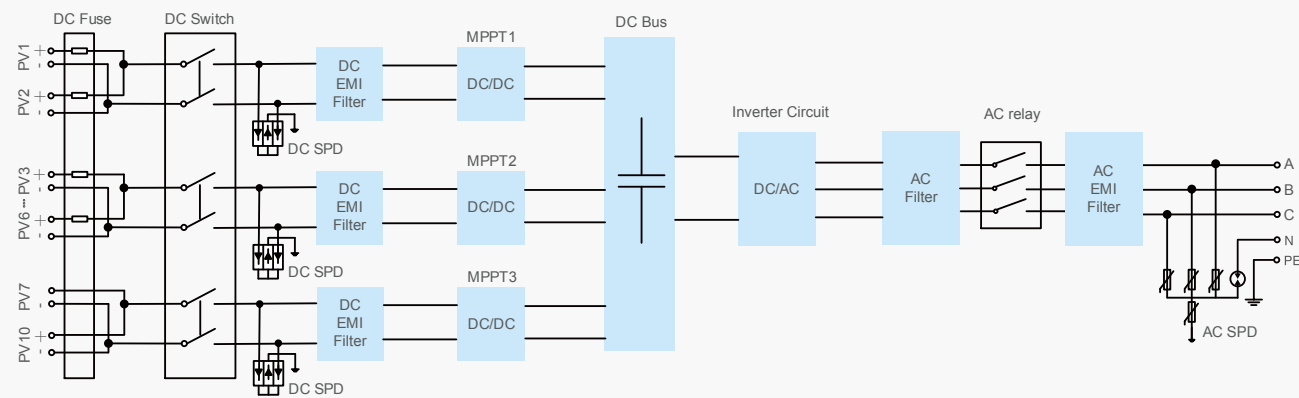
**High reliability**  
Cooling fan with IP68 protection level  
String monitoring function, easy O&M



**Grid friendly**  
Adjustable reactive power  
Low harmonics and fast response for grid regulation



### Circuit



### Input (DC)

Max. PV input voltage	1100V
Max. input current	22A/44A/44A
Rated input voltage	620V
MPP voltage range	200~1000V
MPP voltage range for nominal power	520~850V
Number of MPPT trackers	3
Max. number of PV strings per MPPT	2/4/4

### Output (AC)

Rated output power	55kW@45 C /50kW@50 C
Max. output power	55kW
Rated grid voltage	380V/400V
Grid voltage range	340~440V
Max. output current	83.6A@380V,79.5A@400V
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging

### Protection

DC reverse connection protection	Yes
Overvoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes

### Efficiency

Max. efficiency	98.80%
EU efficiency	98.50%

### General Data

Isolation method	Transformerless
Self-consuming in night	<2W
Protection level	IP65
Noise	<60dB
Temperature	-30 C ~ +60 C
Allowed humidity(non condensing)	0~100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:WIFI
Dimensions (WxHxD)	585x853x295mm
Weight	72kg

# SP-40K

## SP Series String Inverter

**More power generation**  
 Max. efficiency 98.7%, Euro efficiency 98.4%  
 4 MPPTs for tracking maximum PV power

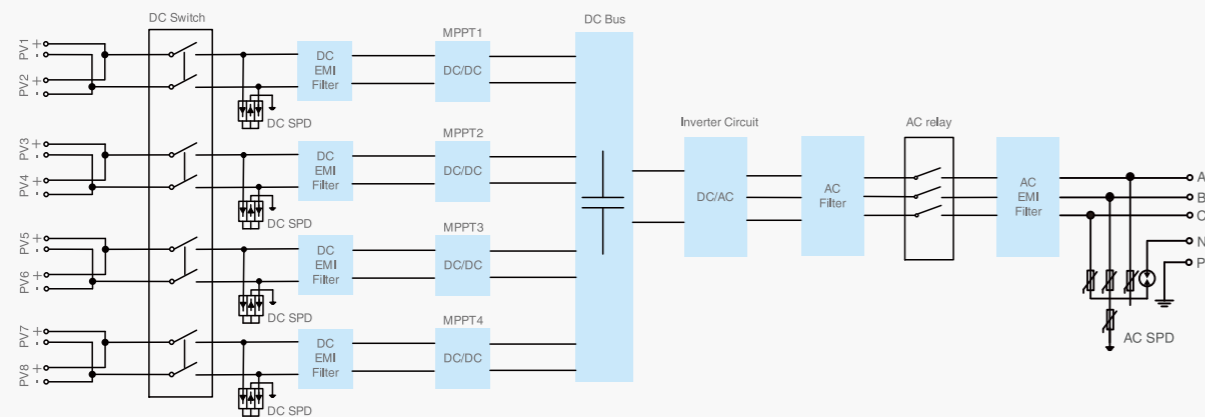
**Low system cost**  
 Power line communication save cable cost and civil work  
 High DC/AC ratio for lower LCOE

**High reliability**  
 Natural cooling for harsh environment and long life  
 String monitoring function, easy O&M

**Grid friendly**  
 Adjustable reactive power  
 Low harmonics and fast response for grid regulation



### Circuit



#### Input (DC)

Max. PV input voltage	1100V
Max. input current	22A*4
Rated input voltage	620V
MPP voltage range	200~1000V
MPP voltage range for nominal power	480~800V
Number of MPPT trackers	4

#### Output (AC)

Rated output power	42kW@45 C/38kW@50 C
Max. output power	42kW
Rated grid voltage	380V/400V
Grid voltage range	340~440V
Max. output current	60.8A
Rated grid frequency / range	50 Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

#### Protection

DC reverse connection protection	Yes
Overvoltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes
Anti-PID function	Optional

#### Efficiency

Max. efficiency	98.70%
EU efficiency	98.40%

#### General Data

Isolation method	Transformerless
Self-consuming in night	<2W
Protection level	IP65
Noise	<60dB
Temperature	-30 C ~+60 C
Allowed humidity(non condensing)	0~100%
Cooling mode	Natural cooling
Max.operating altitude	4000m (>3000m derating )
Communication port	Standard:RS485, Optional:WIFI
Dimensions (WxHxD)	910x572x285mm
Weight	58kg

# CP-1000-B

## CP Series Central Distributed Inverter



### More power generation

High DC input and AC output voltage decreasing cable line loss  
Multiple MPPTs decreasing mismatch losses



### Low system cost

Key components online monitoring  
Redundancy design for cooling fans and control power supply  
Industry oriented design for harsh environment



### High reliability

Integrated DC power distribution function  
Integrated reactive power compensation  
High DC/AC ratio up to 1.5



### Grid friendly

LVRT and HVRT function  
Low harmonics and fast response for grid regulation



### Input (DC)

Max. PV input voltage	1000V
Max. input current	1439A
MPP voltage range for nominal power	300~870V
Max number of DC inputs	48
Max number of MPPT trackers	12

### Output (AC)

Rated output power	1000kW@50 C
Max. output power	1100kW@45 C
Rated grid voltage	520V
Grid voltage range	442~572V
Max. output current	1221A
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	< 3%
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading

### Protection

DC input protection	Circuit breaker
AC output protection	Circuit breaker
Overvoltage protection	DC Type II/AC Type II
Leakage current monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Reactive power compensation	Optional
Anti-PID function	Optional

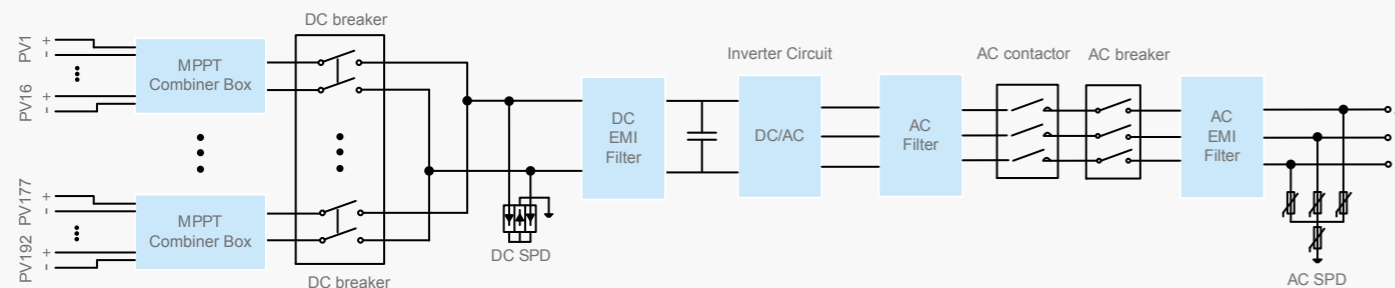
### Efficiency

Max. efficiency	99.10%
EU efficiency	98.65%

### General Data


Self-consuming at runtime	<1000W
Self-consuming in standby	<20W
Protection level	IP20 (IP21 Optional)
Temperature	-30 C ~ +60 C
Allowed humidity(non condensing)	0~95 %
Cooling mode	Temperature controlled forced air cooling
Altitude at full load	3000m
Display	LCD
Communication port	RS485/Ethernet
Certificates and approvals (more available on request)	IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC61000
Dimensions (WxHxD)	1205x2050x750mm
Weight	1100kg

## Circuit



# EJB-16C-M4

1000V Intelligent MPPT Controller



- More power generation**  
Equipped with 4 MPPT units  
Higher DC voltage for lower power loss
- High reliability**  
P-V curve scanning, monitoring the module status  
Natural air cooling without fans for long life
- Easy O&M**  
IP65 for outdoor use  
String monitoring, easy for checking abnormal strings

## Input (DC)

Max. PV input voltage	1000V
MPP voltage range for nominal power	300~820V
Number of DC inputs	16
Number of MPPT	4
Number of strings per MPPT unit	4
Max. input current per string	10.5A

## Output (DC)

Rated output voltage	800V
Output voltage range	750~850V
Max. output current	130A

## Protection


Input protection switch	Yes
Input over-current protection	Yes
Reverse polarity protection	Yes
String fault detection	Yes
String flowing backwards protection	Yes
DC surging protection	Yes
Output protection switch	Yes
Output over-current protection	Yes

## General data

Degree of protection	IP65
Temperature	-30 C ~ +60 C
Cooling mode	Natural air cooling
Allowed humidity(non condensing)	0~95%
Max.operating altitude	4000m (>3000m derating )
Communication port	RS485
Dimensions (WxHxD)	830x630x274mm
Weight	54kg

# EJB-16B-M4

1000V Intelligent MPPT Controller (Suitable for bifacial module)



- More power generation**  
Equipped with 4 MPPT units  
Higher DC voltage for lower power loss  
Suitable for bifacial module
- High reliability**  
P-V curve scanning, monitoring the module status  
Natural air cooling without fans for long life
- Easy O&M**  
IP65 for outdoor use  
String monitoring, easy for checking abnormal strings

## Input (DC)

Max. PV input voltage	1100V
MPP voltage range for nominal power	300~850V
Number of DC inputs	16
Number of MPPT	4
Number of strings per MPPT unit	4
Max. input current per string	12.5A

## Output (DC)

Rated output voltage	800V
Output voltage range	750~1000V
Max. output current	166A

## Protection

Input protection switch	Yes
Input over-current protection	Yes
Reverse polarity protection	Yes
String fault detection	Yes
String flowing backwards protection	Yes
DC surging protection	Yes
Output protection switch	Yes
Output over-current protection	Yes

## General data

Degree of protection	IP65
Temperature	-30 C ~ +60 C
Cooling mode	Natural air cooling
Allowed humidity(non condensing)	0~95%
Max.operating altitude	4000m (>3000m derating )
Communication port	RS485
Dimensions (WxHxD)	830x630x274mm
Weight	54kg