

9. Technical Specifications

Model
Efficiency
Max.efficiency (PV to AC)
Max.efficiency (AC to BAT)
Input (PV)
Max. PV power (W)
Max. PV voltage (V)
Max. input current (A)
Max. short current (A)
Startup voltage (V)
MPPT voltage range @full load (V)
No. of MPPT trackers
String per MPPT tracker
Input (BAT)
Compatible battery type
Norminal battery voltage (V)
Battery voltage range (V)
Lithium battery charge curve
Max. charge/discharge current (A)
Max. charge/discharge power (W)

IPS-4.6K-L60-S	IPS-4.6K-L120-S	IPS-5K-L60-S	IPS-5K-L120-S	IPS-6K-L60-S	IPS-6K-L120-S
97.3%					
94.0%					
9000					
550					
15/15					
20/20					
90					
200~480	200~480	200~480	200~480	230~480	230~480
2					
1					
Lithium/Lead-acid					
48					
40~60					
Self-adaption to BMS					
60/60	120/120	60/60	120/120	60/60	120/120
3000/3000	6000/6000	3000/3000	6000/6000	3000/3000	6000/6000

Model
Output (Grid)
Nominal AC output power (W)
Max.AC output apparent power (VA)
Max.AC output power (PF=1) (W)
Max.AC output current (A)
Rated AC voltage (V)
AC voltage range (V)
Rated AC frequency (Hz)
AC frequency range (Hz)
Grid connection
Power factor
THDI
Output (Back up)
Nominal output voltage (V)
Nominal output frequency (Hz)
Transfer time (ms)
THDV
Nominal output power (W)
Nominal output current (A)
Rated apparent power Sn[VA] (only BAT)
Rated apparent power Sn[VA] (PV+ BAT)

IPS-4.6K-L60-S	IPS-4.6K-L120-S	IPS-5K-L60-S	IPS-5K-L120-S	IPS-6K-L60-S	IPS-6K-L120-S
4600	4600	5000	5000	6000	6000
4600	4600	5500	5500	6000	6000
4600	4600	5500	5500	6000	6000
22	22	25	25	27.2	27.2
220/230/240					
150~300(adjustable)					
50/60					
45~55/55~65(adjustable)					
Single phase					
>0.99@rated power(adjustable 0.8LG~0.8LD)					
<3%					
230					
50/60					
10(type)/20(max.)					
<3%@100%R load					
3000	4600	3000	5000	3000	6000
13	20	13	21.7	13	26
3000	4600	3000	5000	3000	6000
4600	4600	5000	5000	6000	6000

Model	IPS-4.6K-L60-S	IPS-4.6K-L120-S	IPS-5K-L60-S	IPS-5K-L120-S	IPS-6K-L60-S	IPS-6K-L120-S
Relative humidity (%)	0~100					
Cooling concept	Natural					
Mounting	Wall bracket					
Dimensions (W*H*D)	(515*487*175)mm					
PV connection way	MC4/H4					
Battery connection way	Dedicated DC connector					
AC connection way (Grid & back up)	Dedicated AC connector					

Display & Communication

Display	LED+APP
Communication interface	BMS (CAN/RS485)/LAN/WIFI/GPRS/DRMs/Meter (RS485)/USB

Certification

Grid	NRSO97-2-1;G99/1-8:2021;RD 1699:2011;RD661:2007;RD647:2020;RD413:2014;UNE217002:2020;NTS Version 2.1;UNE217001:2020;C10&11_2021;AS4777.2
Safety	IEC62109-1&2; 1
EMC	IEC61000-6-1/2/3/4

Warranty

Period (Years)	5/10 (optional)
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Pollution degree classification	PD3
Voltage Class DVC	Class A(DC), Class C(PV), Class C(AC), Class A(COM)

The energy storage system will reduce the output under high temperature (above 45 °C)for self-protection.

Made in China