

Certificate of Conformity

By the product certificate number:

No. 230028RECO01-CER

Issued to:

License holder:

AISWEI Technology Co., Ltd.
Room 905B, 757 Mengzi Road, Huangpu District, 200023 Shanghai, P.R. China

Trademark:



Manufacturer:

AISWEI New Energy Technology (Yangzhong) Co., Ltd.
No.588 Gangxing Road, Yangzhong, Jiangsu, P.R. China

It is certified that the product:

Type of generating unit: **Grid-connected PV Inverter**

Models:

ASW50K-LT-G2 Pro / ASW45K-LT-G2 Pro / ASW40K-LT-G2 Pro / ASW50K-LT-G2 / ASW45K-LT-G2 / ASW40K-LT-G2 / ASW36K-LT-G2 / ASW33K-LT-G2 / ASW30K-LT-G2

Technical Data:

Nominal power [W]	See pages 2 and 3
Nominal voltage	3/N/PE; 230 V / 400 V
Nominal frequency	50 / 60 Hz
Firmware version	Main DSP Software Version: V610-03038-04 Slave DSP Software Version: V610-60009-00 Safety package (Flash) Version: V61011004-02
Number of phases	Three Phases
Isolation Transformer	No

Is in compliance with the standard:

IEC 61683:1999.

Photovoltaic systems. Power conditioners. Procedure for measuring efficiency.

This certificate is based upon the test results of the Test Report GZES230200310801.

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-33 based on the requirements of the UNE-EN ISO / IEC 17065.

First issued on 21st March 2023

This certificate is valid until 21st March 2028

Madrid, 21st March 2023

Daniel Arranz Muñiz
Certification Manager



Full list of product references and nominal characteristics:

Product Model	ASW40K-LT-G2 Pro	ASW45K-LT-G2 Pro	ASW50K-LT-G2 Pro
Input (DC)			
Max. PV modules power	60000 W	67500 W	75000 W
Max. input voltage/ Rated input voltage	1100 V / 630 V		
MPP Voltage Range	200 ~1000 V		
Full load DC voltage range	400 ~ 935 V	400 ~ 935 V	400 ~ 935 V
Intitial feed-in voltage	250 V		
Min input voltage	200 V		
Max. DC input current	4*32 A		5*32 A
Isc PV, absolute max.	4*48 A		5*48 A
Number of MPP trackers	4		5
Strings per MPP tracker	2		
Output (AC)			
Rated output power	40000 W	45000 W	50000 W
Max. output active power	40000 W	45000 W	50000 W
Max. output apparent power	44000 VA	49500 VA	55000 VA
Rated AC Output Current ⁽¹⁾	58.0 A	65.2 A	72.5 A
Rated AC Voltage	230 / 400 (3/N/PE)		
Rated AC Frequency	50/60 Hz		
Adjustable displacement power factor	0.8 ind – 0.80 cap		
Topology	Transformerless		
Operating temperature range	-25 ~ 60 °C		
Degree of protection	IP65		

Product Model	ASW40K-LT-G2	ASW45K-LT-G2	ASW50K-LT-G2
Input (DC)			
Max. PV modules power	60000 W	67500 W	75000 W
Max. input voltage/ Rated input voltage	1100 V / 630 V		
MPP Voltage Range	200 ~1000 V		
Full load DC voltage range	400 ~ 935 V	440 ~ 935 V	400 ~ 935 V
Intitial feed-in voltage	250 V		
Min input voltage	200 V		
Max. DC input current	4*26 A		5*26 A
Isc PV, absolute max.	4*40 A		5*40 A
Number of MPP trackers	4		5
Strings per MPP tracker	2		
Output (AC)			
Rated output power	40000 W	45000 W	50000 W
Max. output active power	40000 W	45000 W	50000 W
Max. output apparent power	40000 VA	45000 VA	50000 VA
Rated AC Output Current ⁽¹⁾	58.0 A	65.2 A	72.5 A
Rated AC Voltage	230 / 400 (3/N/PE)		
Rated AC Frequency	50/60 Hz		
Adjustable displacement power factor	0.8 ind – 0.80 cap		
Topology	Transformerless		
Operating temperature range	-25 ~ 60 °C		
Degree of protection	IP65		



Product Model	ASW30K-LT-G2	ASW33K-LT-G2	ASW36K-LT-G2
Input (DC)			
Max. PV modules power	45000 W	49500 W	54000 W
Max. input voltage/ Rated input voltage	1100 V / 630 V		
MPP Voltage Range	200 ~1000 V		
Full load DC voltage range	400 ~ 935 V	440 ~ 935 V	470 ~ 935 V
Initial feed-in voltage	250 V		
Min input voltage	200 V		
Max. DC input current	3*26 A		
Isc PV, absolute max.	3*40 A		
Number of MPP trackers	3		
Strings per MPP tracker	2		
Output (AC)			
Rated output power	30000 W	33000 W	36000 W
Max. output active power	30000 W	33000 W	36000 W
Max. output apparent power	30000 VA	33000VA	36000VA
Rated AC Output Current ⁽¹⁾	43.5 A	47.8 A	52.2 A
Rated AC Voltage	230 / 400 V (3/N/PE)		
Rated AC Frequency	50/60 Hz		
Adjustable displacement power factor	0.8 ind – 0.80 cap		
Topology	Transformerless		
Operating temperature range	-25 ~ 60 °C		
Degree of protection	IP65		



Summary efficiency results measured for the tested models:

These efficiency results are representatives for the referred models with a testing frequency of 50Hz.

Power conditioner type – Grid Connected

ASW50K-LT-G2 Pro					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	97.4%	97.8%	97.6%	97.2%	96.9%
Nominal input voltage ⁽²⁾	97.6%	98.7%	98.4%	98.0%	97.7%
90% of the maximum rated input voltage ⁽³⁾	95.3%	97.0%	97.2%	97.2%	96.9%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW45K-LT-G2 Pro					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	96.2%	97.3%	97.4%	97.2%	97.1%
Nominal input voltage ⁽²⁾	96.7%	97.8%	98.0%	98.1%	97.6%
90% of the maximum rated input voltage ⁽³⁾	95.2%	96.9%	97.2%	97.3%	97.1%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW40K-LT-G2 Pro					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.6%	97.2%	97.3%	97.1%	97.1%
Nominal input voltage ⁽²⁾	97.2%	97.8%	98.0%	97.9%	97.8%
90% of the maximum rated input voltage ⁽³⁾	94.9%	96.8%	97.3%	97.1%	97.1%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW50K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.8%	97.0%	97.1%	96.5%	96.4%
Nominal input voltage ⁽²⁾	96.8%	97.8%	97.8%	97.8%	97.7%
90% of the maximum rated input voltage ⁽³⁾	95.2%	96.7%	97.1%	97.2%	96.8%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW45K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	96.0%	97.2%	97.2%	97.2%	96.4%
Nominal input voltage ⁽²⁾	96.9%	97.8%	97.9%	98.1%	97.3%
90% of the maximum rated input voltage ⁽³⁾	95.0%	96.8%	97.1%	97.0%	96.8%

⁽¹⁾ 440 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V



ASW40K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.5%	96.8%	97.1%	96.8%	96.1%
Nominal input voltage ⁽²⁾	96.7%	97.7%	97.9%	97.8%	97.7%
90% of the maximum rated input voltage ⁽³⁾	94.7%	96.7%	97.1%	97.2%	96.8%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW36K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	96.2%	97.4%	97.4%	97.2%	97.3%
Nominal input voltage ⁽²⁾	96.7%	97.8%	98.0%	97.8%	97.8%
90% of the maximum rated input voltage ⁽³⁾	94.3%	96.6%	97.2%	97.3%	96.8%

⁽¹⁾ 470 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW33K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.8%	97.0%	97.4%	97.2%	96.4%
Nominal input voltage ⁽²⁾	96.4%	97.7%	97.8%	97.8%	97.7%
90% of the maximum rated input voltage ⁽³⁾	93.9%	96.7%	97.1%	97.2%	96.8%

⁽¹⁾ 440 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW30K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.2%	96.9%	97.2%	97.0%	96.7%
Nominal input voltage ⁽²⁾	96.4%	97.8%	98.0%	97.9%	97.7%
90% of the maximum rated input voltage ⁽³⁾	94.1%	96.4%	97.1%	97.2%	97.1%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V



These efficiency results are representatives for the referred models with a testing frequency of 60Hz.

Power conditioner type – Grid Connected

ASW50K-LT-G2 Pro					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	97.3%	97.6%	97.8%	97.2%	97.0%
Nominal input voltage ⁽²⁾	97.6%	98.5%	98.7%	98.0%	97.7%
90% of the maximum rated input voltage ⁽³⁾	95.6%	97.0%	97.7%	97.2%	96.4%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW45K-LT-G2 Pro					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	96.5%	97.2%	97.5%	97.4%	97.0%
Nominal input voltage ⁽²⁾	97.0%	97.3%	97.6%	97.7%	97.4%
90% of the maximum rated input voltage ⁽³⁾	95.6%	96.2%	97.4%	97.2%	96.4%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW40K-LT-G2 Pro					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	96.0%	97.0%	97.1%	97.0%	96.5%
Nominal input voltage ⁽²⁾	96.6%	97.8%	97.9%	97.5%	97.4%
90% of the maximum rated input voltage ⁽³⁾	94.9%	96.4%	97.1%	97.3%	97.0%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW50K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.7%	97.2%	97.2%	97.0%	97.3%
Nominal input voltage ⁽²⁾	97.8%	97.9%	98.3%	98.2%	98.0%
90% of the maximum rated input voltage ⁽³⁾	97.8%	97.1%	97.5%	97.3%	97.2%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW45K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	96.0%	97.1%	97.4%	97.1%	97.2%
Nominal input voltage ⁽²⁾	96.6%	98.4%	98.4%	98.2%	98.1%
90% of the maximum rated input voltage ⁽³⁾	95.6%	97.1%	97.5%	97.4%	97.2%

⁽¹⁾ 440 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V



ASW40K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.5%	96.4%	97.0%	97.0%	96.7%
Nominal input voltage ⁽²⁾	97.5%	98.4%	98.4%	98.3%	97.9%
90% of the maximum rated input voltage ⁽³⁾	95.0%	97.2%	97.4%	97.4%	97.3%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW36K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.1%	96.3%	97.1%	97.0%	96.8%
Nominal input voltage ⁽²⁾	97.4%	98.4%	98.5%	98.3%	98.2%
90% of the maximum rated input voltage ⁽³⁾	95.2%	97.2%	97.6%	97.6%	97.4%

⁽¹⁾ 470 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW33K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.1%	96.75	97.0%	97.1%	96.9%
Nominal input voltage ⁽²⁾	97.3%	98.3%	98.4%	98.3%	98.1%
90% of the maximum rated input voltage ⁽³⁾	94.9%	97.1%	97.7%	97.6%	97.5%

⁽¹⁾ 440 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

ASW30K-LT-G2					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage ⁽¹⁾	95.2%	96.7%	96.9%	97.0%	96.7%
Nominal input voltage ⁽²⁾	97.2%	98.4%	98.4%	98.2%	98.1%
90% of the maximum rated input voltage ⁽³⁾	95.4%	97.4%	97.7%	97.5%	97.4%

⁽¹⁾ 400 V; ⁽²⁾ 630 V; ⁽³⁾ 900 V

