Test Report issued under the responsibility of:



The following sample was submitted and identified on behalf of the client as:

TEST REPORT Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling

Report Reference No	SHES200901798252
Tested by (name + signature):	Jarvan Deng Jawan lug
Approved by (name + signature):	Hunter Lin
Date of issue	2021-03-01
Total number of pages	12 pages
Testing Laboratory	SGS-CSTC standards Technical Services Co., Ltd. Anhui Branch
Address:	1/F&2/F, West Building C12, Gongtou Liheng Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, 230601 Anhui, China
Applicant's name	Ningbo Deye Inverter Technology Co., Ltd.
Address:	26-30 Southern Yongjiang Road, Daqi Beilun, Ningbo, Zhejiang, China
Manufacturer's name	Same as applicant
Address:	Same as applicant
Test specification:	
Standard:	SANS 941:2020; SANS 54511-3:2016 Edition 2 and nat. amdt 1
Test procedure	SGS-CSTC
Non-standard test method	None
Test Report Form No	SANS54511-3_B
Test Report Form(s) Originator:	SGS-CSTC
Master TRF	2020-09-07
This test report is issued under SGS	general terms of delivery (available on request and accessible

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Test item description:	Air-conditioner
Trade Mark:	Deye
Factory: Model/Type reference	Same as applicant DGWA2-ACDCBLW-12K (IU: DGA2-ACDCBLW-12K, OU: DWA3-ACDCBLW-12K)
Ratings:	Refer to marking plates



Summary of testing:

SANS 941:2020 1/F&2/F. West Building C12, Gongtou Liheng Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, 230601 SANS 54511-3:2016 Edition 2 and nat. amdt 1 Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, 230601 Fests were performed by AC power from supply main only. Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, 230601 Copy of marking plates: Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, 230601 Copy of marking plates: Difference The artworks below are only drafts. Difference Indoor Unit Type DoWa2-ACDCELW-12K Outdoor Unit Type DoWa2-ACDCELW-12K Outdoor Unit Type DoWa2-ACDCELW-12K Mated Yoltage by solar nodule Rated Yoltage by solar nodule Rated Yoltage by solar nodule Cooling Capacity 351000-360/W Cooling Capacity 351000-360/W Rated Voltage by solar nodule Cooling Current Input 041 (120-530) A Heating Capacity 35000-360/W Cooling Current Input 11015-551A ER/COP 268/283 Air Flow Volume 650/n/h	Tests performed (name of test and test clause):		Test Location:	
Tests were performed by AC power from supply nain only. Image: State of the second state of the seco	SANS 941:2020 SANS 54511-3:2016 Edition 2 and nat. amdt 1 EN 14511-3:2018		1/F&2/F, West Building C12, Gongtou Liheng Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, 230601	
The submitted appliance complies with the EER and COP requirements of specific standards. Copy of marking plates: The artworks below are only drafts. 12K Indoor unit Nameplate Solar Inverter Air Conditioner Product Type DGWA2-ACDCBLW-12K Outdoor Unit Type DWA3-ACDCBLW-12K Outdoor Unit Type DWA3-ACDCBLW-12K Dudoor Unit Type DWA3-ACDCBLW-12K Name DC80V-380V supplied by solar module AC208-240V: DC80V-380V supplied DC80V-380V supplied Rated Voltage by solar module Rated Frequency AC:50/60Hz Cooling Capacity 3510 90-381NW Heating Capacity 360(200-238)NW Heating Cover Input 0.91 (0:20-120) kW Cooling Current Input 410 (1:20-530) A Heating Current Input 4:38/382 Air Flow Volume 650m ² /h Max. Input Current 7. 50A Max. Input Current 7. 50A Max. Discharge Pressure 4: 30Pa Max. Discharge Pressure 4: 30Pa Max. Suction Pressure 1: 50Ma Max. Discharge Pressure	Tests were performed by A main only.	C power from supply		
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Indestry outdoor onit worke outdoor nameplate Indestry outdoor Refrigerant R410A/Refer to outdoor nameplate Outdoor Unit Noise 52dB(A) Max. Discharge Pressure 4.3MPa Max. Discharge Pressure 4.3MPa Max. Suction Pressure 1.5MPa Max. Suction Pressure 1.5MPa Indoor max operating pressure of heat exchanger 4.3MPa Outdoor max operating pressure of heat exchanger 4.3MPa	Indoor/Outdoor Unit Noise	42.5dB(A)/Refer to	Max. Input Current	7.504
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Indoor max operating 4.3MPa pressure of heat exchanger 4.3MPa Indoor max operating 4.3MPa pressure of heat exchanger 4.3MPa	Max. Suction Pressure	1. JMPa	Max. Suction riessure	1.000.8
	Indoor max operating processing 4.3MPa		nressure of heat exchanger	4.3MPa
indoor unit wet weight 9.0kg 10utdoor Unit Net Weight 33.5kg	Indoor Unit Net Weight 9.0kg		Outdoor Unit Net Weight	33.5kg







Testing.....

Date of receipt of test item 2020-09-08

Date (s) of performance of tests From 2020-09-08 to 2020-09-30

General remarks:

The test results presented in this report relate only to the object tested.

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"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

General product information:

Split-type air conditioner can be energized by AC power from supply main and DC power from solar modules and intended for household use only, the refrigerant was R410A. The appliances have cooling function and heating function.

Air Conditioner Details:

А/С Туре	Cooling and heating
A/C Configuration 1 —Air distribution	Non-ducted
A/C Configuration 2—Type	Single split system
A/C Configuration 3—Heat transfer	Air
Rated voltage(V)(of package unit or indoor unit if split system):	AC 208-240V~; DC80V-380V supplied by solar module
Rated voltage(V)(of outdoor unit if split system) Rated frequency:	AC 208-240V~; DC80V-380V supplied by solar module
Rated total cooling capacity (condition T1)	3510 W
Rated effective power input, cooling:	910 W
Rated heating capacity	3600 W
Rated effective power input, heating:	940 W
Does this air conditioner use a variable output compressor (e.g., speed drive or multi-speed compressor):	Yes
Refrigerant:	R410A/1100 g



Test condition:				
Climatic class	Cooling capacity	Heating capacity		
Tested voltage (V)	230,1	230,1		
Tested frequency (Hz)	50,0	50,0		
a) Temperature of air entering indoor side				
Dry Bulb(27°C)	27,0	20,0		
Wet Bulb(19°C)	19,0	15,0		
b) Temperature of air entering outdoor side				
Dry Bulb(35°C)	35,0	7,0		
Wet Bulb(24°C)	24,0	6,0		
Piping Length	5 meters	5 meters		



Test results:				
The determination of cooling capacity:				
Coolina	Total cooling capacity in kW	3,439		
capacity	Air conditioner power consumption in kW	0,908		
Measured Er	nergy efficiency ratio(EER)	3,79		
Rated Energy efficiency ratio(EER) 3,86				
Measured Energy efficiency ratio(EER) / Rated Energy efficiency ratio(EER)(>95%)		98,2 %		
The minimum energy efficiency rating according to COMPULSORY SPECIFICATION FOR ENERGY EFFICIENCY AND LABELING OF ELECTRICAL AND ELECTRONIC APPARATUS (VC 9008)		В		
Energy efficiency class		A++		
The indicative annual energy consumption		454		
Indicate fan and any other settings for determination of rated capacity:		Fan speed: the highest speed Grilles are in the position which result in the largest air quantity		

The energy efficiency class of air conditioners in cooling mode shall be determined in accordance with the appropriate of table AA.3 relevant to the type of air conditioner.

Table AA.3 — Mid-wall/high-wall mounted split type air conditioners

1	2
Energy efficiency class	EER/COP
A++	<i>EER/COP</i> > 3,60
A+	3,60 ≥ <i>EER/COP</i> > 3,40
A	3,40 ≥ <i>EER/COP</i> > 3,20
В	3,20 ≥ <i>EER/COP</i> > 3,00
С	3,00 ≥ <i>EER/COP</i> > 2,80
D	2,80 ≥ <i>EER/COP</i> > 2,60
E	2,60 ≥ <i>EER/COP</i> ≥ 2,40



The determination of heating capacity:				
Heating	Total heating capacity in kW	3,663		
capacity	Air conditioner power consumption in kW	0,970		
Measured Coefficient of performance (COP)		3,78		
Rated Coefficie	Rated Coefficient of performance (COP) 3,83			
Measured Coefficient of performance (COP) / Rated Coefficient of performance (COP)(>95%)		98,7 %		
The minimum energy efficiency rating according to COMPULSORY SPECIFICATION FOR ENERGY EFFICIENCY AND LABELING OF ELECTRICAL AND ELECTRONIC APPARATUS (VC 9008)		В		
Energy efficiency class		A++		
Indicate fan and any other settings for determination of rated capacity:		Fan speed: the highest speed Grilles are in the position which result in the largest air quantity		

The energy efficiency class of air conditioners in cooling mode shall be determined in accordance with the appropriate of table AA.3 relevant to the type of air conditioner.

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с	3,00 ≥ <i>EER/COP</i> > 2,80
D	2,80 ≥ <i>EER/COP</i> > 2,60
E	2,60 ≥ <i>EER/COP</i> ≥ 2,40



	SANS 941:2020			
SOUTH AFRICAN NATIONAL STANDARD				
	Energy efficiency of electrical and el	ectronic apparatus		
CI.	Requirement-Test	Result-Remark	Verdict	
4	Requirements		Р	
4.1	General requirements		Р	
4.1.2	Standby power		N/A	
	When tested in accordance with SANS 62301 or SANS 62087, the standby power of apparatus shall be not more than 1 W. Air conditioners are excluded from this requirement.		N/A	
4.1.3	Energy label	·		
4.1.3.1	The label shall be displayed on the front or top of the apparatus where it shall be readily visible at the time of sale.		Р	
4.1.3.2	All apparatus with the exception of audio and video equipment shall display an energy efficiency label in accordance with a guide for energy efficiency labelling issued by the relevant national department.		Р	
4.1.3.3	The specific energy efficiency label shall be legible and durable. Compliance shall be checked by inspections and by rubbing the label by hand for 15 s with a piece of cloth soaked with water and again for 15 s with the piece of cloth soaked with petroleum spirit. The petroleum spirit to be used for the test is aliphatic solvent hexane.		P	
4.2	Specific requirements			
4.2.1	Air conditioners		Р	
	Air conditioners and heat pumps for space heating and cooling shall comply with the requirements of SANS 54511-3, and shall carry an energy efficiency label designed in accordance with the national annex on energy labels in SANS 54511-3.		Р	



List of test equipment used:

Equipments name	Range used	Accuracy	Resolution	Date of calibration
Testing chamber AHE115-02	Indoor side dry bulb: 5-50 °C, RH30%- 92%; outdoor side dry bulb: -20- 65 °C, RH30%-92%; Inner enthalpy difference: air volume: 300-3000m3/h; Cooling capacity 1500- 15000W; Heating capacity 1500- 15000W; Allowable static pressure: 0-250pa; Outside enthalpy difference: air volume 600-6000 m3/h; Heat pump water heater: heating capacity 5000- 15000W; Water flow 0.05-3 m3/h	Working condition of test capacity: ± 0.1 ℃ Operating condition environment: ± 0.2 ℃	OK	2020-01-16
Module Card of Data Acquisition AHE115-02A	0-300℃	0.05℃	OK	2020-01-16
Digital Power Meter AHE115-02C	0-600V,0-20A, 0.5Hz-100kHz	±(0.1% of reading + 0.1 % of range)	OK	2020-01-17
Differential pressu re gauge AHE115-02F~ AHE115-02L	0-1000Pa -500-500Pa -50-450Pa	±0.8Pa	OK	2020-01-17
Platinum resistor AHE115-02T1 AHE115-02T2 AHE115-02T3 AHE115-02T4 AHE115-02T5 AHE115-02T6 AHE115-02T7 AHE115-02T8	-5~60℃ -30~65℃	±0.1°C	ОК	2020-01-16
Platinum resistor AHE115-02T9 AHE115-02T10 AHE115- 02T11~19	-150~150℃	±0.1°C	ОК	2020-01-16
Platinum resistor AHE115-02T20 AHE115-02T21	-5~65℃	±0.1°C	ОК	2020-01-16



Photo documents:









Details of: Compressor



---- End of Report ----