

Report No. GZES200501879801

Date: 2020-06-29

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

Shenzhen SOFAR SOLAR Co., Ltd. Applicant:

> 401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen City, Guangdong Province, P.R. China

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch **Testing** location/address:

198 Kezhu Road, Science City, Economic & Technology Development Area,

Guangzhou, Guangdong, China

The standards/method: Refer to IEC 60529: 2013-08 (Ed.2.2) clause 13 and clause 14

Test item description: **IP65**

Trade Mark:

HYD 20KTL-3PH Model/Type for test:

Variant Models HYD 15KTL-3PH, HYD 10KTL-3PH;

HYD 8KTL-3PH, HYD 6KTL-3PH, HYD 5KTL-3PH;

See page 2 to page 3 Ratings:

Sample receipt date: 2020-06-25

Testing date: 2020-06-25 to 2020-06-26

Test result: **Pass**

Remark: Throughout this report a point is used as the decimal separator

When determining for test conclusion, measurement uncertainty of tests has

been considered.

Hugo Zhang

Project Engineer

Technical Reviewer

This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Term sample(s) tested and such sample(s) are retained for 30 days only.



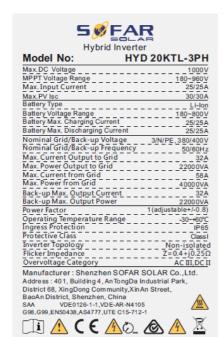
Report No. GZES200501879801

Date: 2020-06-29

TEST RESULTS:

Test items	Test condition	Test result
IP6X	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmostpheric pressure by a vacuum pump, The suction connection shall be made to a hole specially provided for the test.	No deposit of dust is observable inside the enclosure.
IPX5	Internal diameter of the nozzle: 6.3 mm Delivery rate: 12.5 L/min Core of the substantial stream: circle of approximately 40 mm diameter at 2.5 m distance from nozzle Test duration: 3 min Distance from nozzle to enclosure surface: between 2.5 m and 3 m.	No water inside the enclosure

Rating:



Tel.: +86 20 82155392 Fax: +86 20 82075058

Hybrid Inverter		
Model No: HYI	0 15KTL-3PH	
Max.DC Voltage	1000V	
MPPT Voltage Range	180~960 V	
Max. Input Current	25/25 A	
Max.PV Isc	30/30 A	
Battery Type	Li-lon	
Battery Voltage Range	180~800V	
Battery Max. Charging Current	25/25A	
Battery Max. Discharging Current	25/25A	
Nominal Grid/Back-up Voltage	3/N/PE,380/400V	
Nominal Grid/Back-up Frequency	50/60Hz	
Max. Current Output to Grid	24A	
Max. Power Output to Grid	16500VA	
Max. Current from Grid	44 A	
Max. Power from Grid	30000VA	
Back-up Max. Output Current	24A	
Back-up Max. Output Power	16500VA	
Power Factor	1 (adjustable+/-0.8)	
Operating Temperature Range	-30 ~+ 60°C	
Ingress Protection	IP65	
Protective Class	Class I	
Inverter Topology	Non-isolated	
Flicker Impedance	$Z = 0.4 + j \cdot 0.25 \Omega$	
Overvoltage Category	AC III,DC II	
Manufacturer: Shenzhen SOFAR S		
Address: 401, Building 4, An Tong Da Ir		
District 68, XingDong Community,XinA	n Street,	
BaoAn District, Shenzhen, China SAA VDE0126-1-1, VDE-AR-N4105		
G98.G99.EN50438.AS4777.UTE C15-712-		

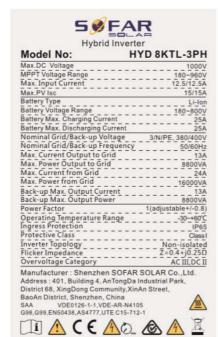
S FAR





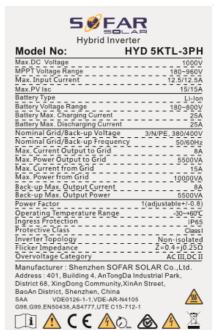
Report No. GZES200501879801

Date: 2020-06-29





1 A CE AO & A I



Tel.: +86 20 82155392 Fax: +86 20 82075058



Report No. GZES200501879801

Date: 2020-06-29

Appendix Photos:



IP6X test



IPX5 test



Report No. GZES200501879801

Date: 2020-06-29

After IP65 test, no deposit of dust and no water are observable inside the enclosure



******End of report**************