

## VERIFICATION OF COMPLIANCE

No.: GZES2006019361PV

Applicant: Shenzhen SOFAR SOLAR Co., Ltd.  
401, Building 4, AnTongDa Industrial Park, District 68, XingDong  
Community, XinAn Street, BaoAn District, Shenzhen City,  
Guangdong Province, P.R. China

Manufacturer: Shenzhen SOFAR SOLAR Co., Ltd.  
401, Building 4, AnTongDa Industrial Park, District 68, XingDong  
Community, XinAn Street, BaoAn District, Shenzhen City,  
Guangdong Province, P.R. China

Product Name: Hybrid Inverter (Three Phase)

Product Description: Inverter used in PV system

Model No.: HYD 5KTL-3PH, HYD 6KTL-3PH, HYD 8KTL-3PH;  
HYD 10KTL-3PH, HYD 15KTL-3PH, HYD 20KTL-3PH;

Trade Mark:



Rating:

Refer to page 2 to page 3

Intended Use:

PV System

Protection against Electric Shock:

Class I

Additional Information (if any):

IP 65

Firmware version: V2.00

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard:

Refer to page 3

as shown in the

Test Report Number(s):

GZES200601936101, GZES200601936102  
GZES200601936103

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.



David Guo  
Senior Technical Manager  
SGS-CSTC

2020-06-29



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Other information added :  
Ratings

Model	HYD 5KTL-3PH	HYD 6KTL-3PH	HYD 8KTL-3PH	HYD 10KTL- 3PH	HYD 15KTL- 3PH	HYD 20KTL- 3PH
PV String Input Data						
Recommended Max. PV power	7500Wp (6000Wp/6000Wp)	9000Wp (6600Wp/6600Wp)	12000Wp (6600Wp/6600Wp)	15000Wp (7500Wp/7500Wp)	22500Wp (11250Wp/11250Wp)	30000Wp (15000Wp/15000Wp)
Max. DC voltage	1000V					
Start-up operating voltage	200V					
MPPT voltage range	180V~960V					
Nominal DC voltage	600V					
Full power MPPT voltage range	250V~850V	320V~850V	360V~850V	220V~850V	350V~850V	450V~850V
Max. input current	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	25A/25A	25A/25A	25A/25A
Max. short current	15A/15A	15A/15A	15A/15A	30A/30A	30A/30A	30A/30A
Battery Input Data						
Battery voltage range	180V~800V					
Battery voltage range for full load	200V~800V	240V~800V	320V~800V	200V~800V	300V~800V	400V~800V
No. of battery input	1			2		
Nominal charging/discharging power	5000W	6000W	8000W	10000W	15000W	20000W
Max. charging/discharging current	25A	25A	25A	50A (25A/25A)	50A (25A/25A)	50A (25A/25A)
Peak charging/discharging current, Duration	40A, 60s	40A, 60s	40A, 60s	70A (35A/35A), 60s	70A (35A/35A), 60s	70A (35A/35A), 60s
AC Output Data (On-grid)						
Nominal AC power	5000W	6000W	8000W	10000W	15000W	20000W
Max. AC power output to utility grid	5500VA	6600VA	8800VA	11000VA	16500VA	22000VA
Max. AC power from utility grid	10000VA	12000VA	16000VA	20000VA	30000VA	40000VA
Max. AC current output to utility grid	8A	10A	13A	16A	24A	32A
Max. AC Current from utility grid	15A	17A	24A	29A	44A	58A
AC Output Data (Back-up)						
Nominal output power	5000W	6000W	8000W	10000W	15000W	20000W
Max. output power	5500VA	6600VA	8800VA	11000VA	16500VA	22000VA



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Peak output power, Duration	10000VA, 60s	12000VA, 60s	16000VA, 60s	20000VA, 60s	22000VA, 60s	22000VA, 60s
Max. output current	8A	10A	13A	16A	24A	32A
Peak output current, Duration	15A, 60s	18A, 60s	24A, 60s	30A, 60s	32A, 60s	32A, 60s
Nominal output voltage	3/N/PE, 220/380Vac, 230/400Vac					
Nominal output frequency	50/60Hz					
Output power factor	~1(0.8 leading to 0.8 lagging)					
Operating temperature range	-30°C ~60°C					
Ingress protection	IP65					
Protective class	Class I					
Cooling method	heat sink	heat sink	heat sink	fan	fan	fan

Test Standard:

IEC 61683:1999. Photovoltaics systems - Power conditioners - Procedure for measuring efficiency.  
 IEC 62116:2014. Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters.  
 IEC 61727:2004. Photovoltaics (PV) systems - Characteristics of the utility interface.

  
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 SGS-CSTC



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