



Product Service

# CERTIFICATE

No. Z2 109906 0032 Rev. 00

**Holder of Certificate:** **Hiconics Eco-energy Drive Technology Co., Ltd.**

No.3 Boxing 2nd Road  
Beijing Economic and Technological Development Zone  
100176 Beijing  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** **Converter  
(Hybrid Solar Inverter)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290233002501

**Valid until:** 2027-12-05

**Date,** 2023-02-27

( Billy Qiu )

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Model(s): **HEC-T 8K, HEC-T 10K, HEC-T 12K**

## Parameters:

Model Name	HEC-T 8K	HEC-T 10K	HEC-T 12K
<b>Battery terminal Data</b>			
Battery Voltage Range	44~58 Vd.c.		
Max. Charge Current	160 Ad.c.		
Max. Discharge Current	160 Ad.c.	200 Ad.c.	
Max. Charge Power	8000 W		
Max. Discharge Power	8000 W	10000 W	
<b>PV String Input Data</b>			
Max. PV Input Power	16000 W	20000 W	20000 W
Max. PV Input Voltage	1100 Vd.c.		
MPPT Range	140-1000 Vd.c.		
MPPT Range (Full load)	380~850 Vd.c.	420~850 Vd.c.	480~850 Vd.c.
Nominal PV Input Voltage	720 Vd.c.		
Max. Input Current	15 Ad.c. x 2		
Max. Short Current	20 Ad.c. x 2		
No. of MPP Trackers	2		
Strings per MPP Tracker	1		
<b>AC terminal Data(On-grid)</b>			
Nominal Output Power	8000 W	10000 W	12000 W
Max. Output Power	8800 VA	11000 VA	13200 VA
Nominal Input Power	16000 W	17800 W	
Max. Input Power	16000 VA	17800 VA	
Nominal Output Voltage	3W/N/PE, 230/400 Va.c.		
Nominal Output Frequency	50/60 Hz		
Max. AC Output Current	12.8 Aa.c.	16 Aa.c.	19.2 Aa.c.
Rated AC Output Current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Max. AC Input Current	25 Aa.c.	25 Aa.c.	
Rated AC Input Current	23.2 Aa.c.	25 Aa.c.	
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging		
<b>AC Output Data (Back-up/Load Control)</b>			
Max. Output Power	8000 VA	10000 VA	10000 VA
Rated Output Power	7360 W	9200 W	9200 W
Rated Output current	10.7 Aa.c.	13.3 Aa.c.	13.3 Aa.c.
Max. Output Current	11.6 Aa.c.	14.5 Aa.c.	14.5 Aa.c.
Nominal Output Voltage	3/N/PE, 230/400Va.c.		
Nominal Output Frequency	50/60 Hz		
<b>General Data</b>			
Operating Temperature Range	-25°C ~+60°C (derating above 40°C)		
Relative Humidity	0-95%		



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Operating Altitude	≤2000 m
Cooling	Nature Cooling
Protection class	I
Ingress protection	IP65

**Tested  
according to:**

IEC 62109-1:2010  
EN 62109-1:2010  
IEC 62109-2:2011  
EN 62109-2:2011