



## Calibration certificate N° 22111198

## Certificate

Pages: 1  
 Date of release: 02/11/2022  
 Consignee: .....  
 Request: .....  
 Date of request: .....  
 Date of putting into service: .....  
 (to be filled in by the final customer)  
 Next calibration date: .....  
 (to be filled in by the final customer)  
 Subject  
 Manufacturer: HT ITALIA  
 Type: I-V  
 Model: 400w  
 Serial no.: 22111198  
 Accuracy class: See instruction manual  
 Instrument specifications: See instruction manual

The test results reported in the calibration certificate of the instrument under reference were obtained using samples and measuring instruments whose traceability dates back to the standard instrument provided with calibration certificate as below indicated:

Standard instrument	Calibration certificate
Wv 9100	ACCREDIA 9840 21/03/2022

Tests were carried out at the room temperature of 23°C ±5°C with relative humidity of 60% ±5%.

Tests were carried out according to iop\_14200calibrazione procedure.

In view of the whole chain of traceability the symmetrical uncertainties more and less, referred to the numerical values reported in the certificate, are the following:

For AC voltage	.....	0.020%
For DC voltage	.....	0.009%
For AC current	.....	0.16%
For DC current	.....	0.16%
For resistance	.....	0.010%
For reference conditions		
Frequency	.....	0.5%
For room humidity	.....	2.5%
For room temperature	.....	1K

## Result table

Ref	Function	Reading
1	Outlook, BAT indication, display, keys and serial com.	OK √

Ref	Function	Nominal Value	Lower limit	Reading	Upper limit	Uncertainty		
<b>I-V</b>								
2	Voltage	[V]	50,0	49,6	<b>50,0</b>	50,5	0,5	
			100,0	99,3	<b>100,0</b>	100,7	0,7	
			400,0	397,8	<b>400,0</b>	402,2	2,2	
			600,0	596,8	<b>600,0</b>	603,2	3,2	
3	Current	[A]	1,00	0,97	<b>1,00</b>	1,03	0,03	
			5,00	4,93	<b>5,00</b>	5,07	0,07	
4	Irradiance	[mV]	10,0	9,4	<b>9,9</b>	10,6	0,6	
			30,0	29,2	<b>30,0</b>	30,8	0,8	
5	Temperature	[°C]	38.5Ω	10,0	7,9	<b>10,2</b>	12,1	2,1
		(3,85Ω/°C)	192.5Ω	50,0	47,5	<b>50,0</b>	52,5	2,5