

## Appendix

### Symbology

Parameter	Unit of measure	Description	Symbols								
$\varepsilon$	Degrees (°)	Solar elevation angle									
$\alpha$		Solar azimuth angle									
$\theta$		Surface tilt angle									
$\gamma$		Surface azimuth angle									
$\beta$		Normal incidence angle									
R	kWh/m <sup>2</sup>	Solar irradiation	<table border="1"> <tr> <td colspan="2">o: Global on horizontal plane</td> </tr> <tr> <td colspan="2">s: Global on tilted and oriented plane</td> </tr> <tr> <td>n: Normal on tilted and oriented plane</td> <td>A: Arpa</td> </tr> <tr> <td></td> <td>P: PVGIS</td> </tr> </table>	o: Global on horizontal plane		s: Global on tilted and oriented plane		n: Normal on tilted and oriented plane	A: Arpa		P: PVGIS
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E	kWh	Electric energy	<table border="1"> <tr> <td colspan="2">R: Actual</td> </tr> <tr> <td colspan="2">R, C: Actual daily cumulative</td> </tr> <tr> <td>S: Estimated</td> <td>A: Arpa</td> </tr> <tr> <td></td> <td>P: PVGIS</td> </tr> </table>	R: Actual		R, C: Actual daily cumulative		S: Estimated	A: Arpa		P: PVGIS
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A	m <sup>2</sup>	Collection area									

$\eta$	-	Conversion yield	p: PV panel	N: Nominal
				S: Estimated
			BOS: DC/AC system	S: Estimated
			v: PV system technical obsolescence	
			t: Voltage transformer	
			c: Losses in wiring, cables, etc.	
			i: Inverter	
$\text{eff}_{\text{rel}}$	-	PV panel relative efficiency		
$R'_n$	Wh/m <sup>2</sup>	Normal irradiation on a tilted and oriented plane compared to STC (1000 W/m <sup>2</sup> with AM 1.5 and T 25°C)		
v	m/s	Wind speed		
T	°C	Temperature	p: PV panel	
			STC: Standard Test Conditions	
			a: Air	
$\Delta T$		Difference between the PV panel operating temperature and the STC temperature		
$\lambda$	-	Deviation between the actual and the estimated electric production		