



PV module - LR5-72HBD-555M

Manufacturer	LONGi	Commercial data	
Model	LR5-72HBD-555M	Data source :	RETCT-LRI294e-240920
Pnom STC power (manufacturer)	555 Wp	Technology	Si-mono
Module size (W x L)	1.134 x 2.278 m ²	Rough module area (Amodule)	2.58 m ²
Number of cells	2 x 72	Sensitive area (cells) (Acells)	2.41 m ²
Specifications for the model (manufacturer or measurement data)			
Reference temperature (TRef)	25 °C	Reference irradiance (GRef)	1000 W/m ²
Open circuit voltage (Voc)	50.0 V	Short-circuit current (Isc)	14.05 A
Max. power point voltage (Vmpp)	42.1 V	Max. power point current (Impp)	13.19 A
=> maximum power (Pmpp)	555.3 W	Isc temperature coefficient (mulsc)	4.4 mA/°C
One-diode model parameters			
Shunt resistance (Rshunt)	700 Ω	Diode saturation current (IoRef)	0.016 nA
Serie resistance (Rserie)	0.20 Ω	Voc temp. coefficient (MuVoc)	-136 mV/°C
Specified Pmax temper. coeff. (muPMaxR)	-0.34 %/°C	Diode quality factor (Gamma)	0.98
		Diode factor temper. coeff. (muGamma)	0.000 1/°C
Reverse Bias Parameters, for use in behaviour of PV arrays under partial shadings or mismatch			
Reverse characteristics (dark) (BRev)	3.20 mA/V ²	(quadratic factor (per cell))	
Number of by-pass diodes per module	3	Direct voltage of by-pass diodes	-0.7 V
Model results for standard conditions (STC: T=25 °C, G=1000 W/m², AM=1.5)			
Max. power point voltage (Vmpp)	41.5 V	Max. power point current (Impp)	13.40 A
Maximum power (Pmpp)	556.2 Wp	Power temper. coefficient (muPmpp)	-0.34 %/°C
Efficiency(/ Module area) (Eff_mod)	21.5 %	Fill factor (FF)	0.793
Efficiency(/ Cells area) (Eff_cells)	23.1 %		

