

ABB StringSizer - Configuration Report

Location	Temperature (°C)	Amb	Cell	Mounting method
CONTINENT Europe	Minimum	-8°C	-8°C	Flush on roof
COUNTRY Hungary	Average	22°C	57°C	
LOCATION Budapest	Maximum	27°C	62°C	

Inverter Model	PVI-3.6-TL-OUTD BASE
Rated AC Power [kW]/ Rated AC Voltage [V]	3600 / 230
Mppt Configuration	PARALLEL MPPT (Num. MPPT ind.: 1)
Total number of PV modules	12
Installed DC Power (STC) [kW]	3240
Notes	The selected inverter don't have string protection fuses on board. If it is proposed to design a photovoltaic generator in a group of three strings or more groups of three parallel strings, assess the inclusion of protection fuses of suitable size.



PV Panel (manufacturer / model)	Sharp / NDRJ270
Technology	
STC Rated Power [W]	270
Open Circuit Voltage - Voc [V]	37.99
Short Circuit Current - Isc [A]	9.15
Maximum Power Voltage - Vmp [V]	31.29
Maximum Power Current - Imp [A]	8.70
Temperature Coefficient - Voc [V/°C]	-0.122
Temperature Coefficient - Isc [mA/°C]	4.026



	MPPT1	MPPT2
PV Panels/String	12	n/a
Number of Parallel Strings	1	n/a
Total number of PV modules	12	n/a
Notes	1	n/a
Installed DC Power (STC) [kW]	3.24	n/a
Maximum Power/MPPT [kW]	4.15	n/a
PPV(INST),MPPTi/PMPTMAX	78.1%	n/a
PPV(inst)/PACR	90.0%	n/a
PPV(inst)/PACMAX	81.8%	n/a
PV Panel Max System Voltage [Vdc]	1000	n/a
Inverter Maximum Input Voltage [Vdc]	600	n/a
String Open Circuit Voltage @-8°C [Vdc]	504.2	n/a
String Open Circuit Voltage @62°C [Vdc]	401.7	n/a
Inverter Activation Voltage (default) [Vdc]	200	n/a
Inverter Recommended Activation Voltage [Vdc]	Default (200)	n/a
String Max Power Voltage @-8°C [Vdc]	415.1	n/a
String Max Power Voltage @57°C [Vdc]	337.1	n/a
String Max Power Voltage @62°C [Vdc]	331.1	n/a
Inverter MPP Operating Range* [Vdc]	140 - 580	n/a
PV Array Max Short Circuit Curr. @62°C [Adc]	9.3	n/a
Inverter Max Short Circuit Current/MPPT [Adc]	40	n/a
PV Array MPP Current @62°C [Adc]	8.8	n/a
Inverter Max MPPT Input Current [Adc]	32	n/a
Notes legend	*) Range for MPPT operation considering the voltage default activation; 1)- Number of parallel strings compatible with inverter connections.	

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All configurations should be double-checked by a qualified engineer for compliance with the inverter operating parameters, and electrical codes and regulations in effect at the installation site. By using this tool, the user indemnifies ABB. from any and all consequential damages arising from its use.