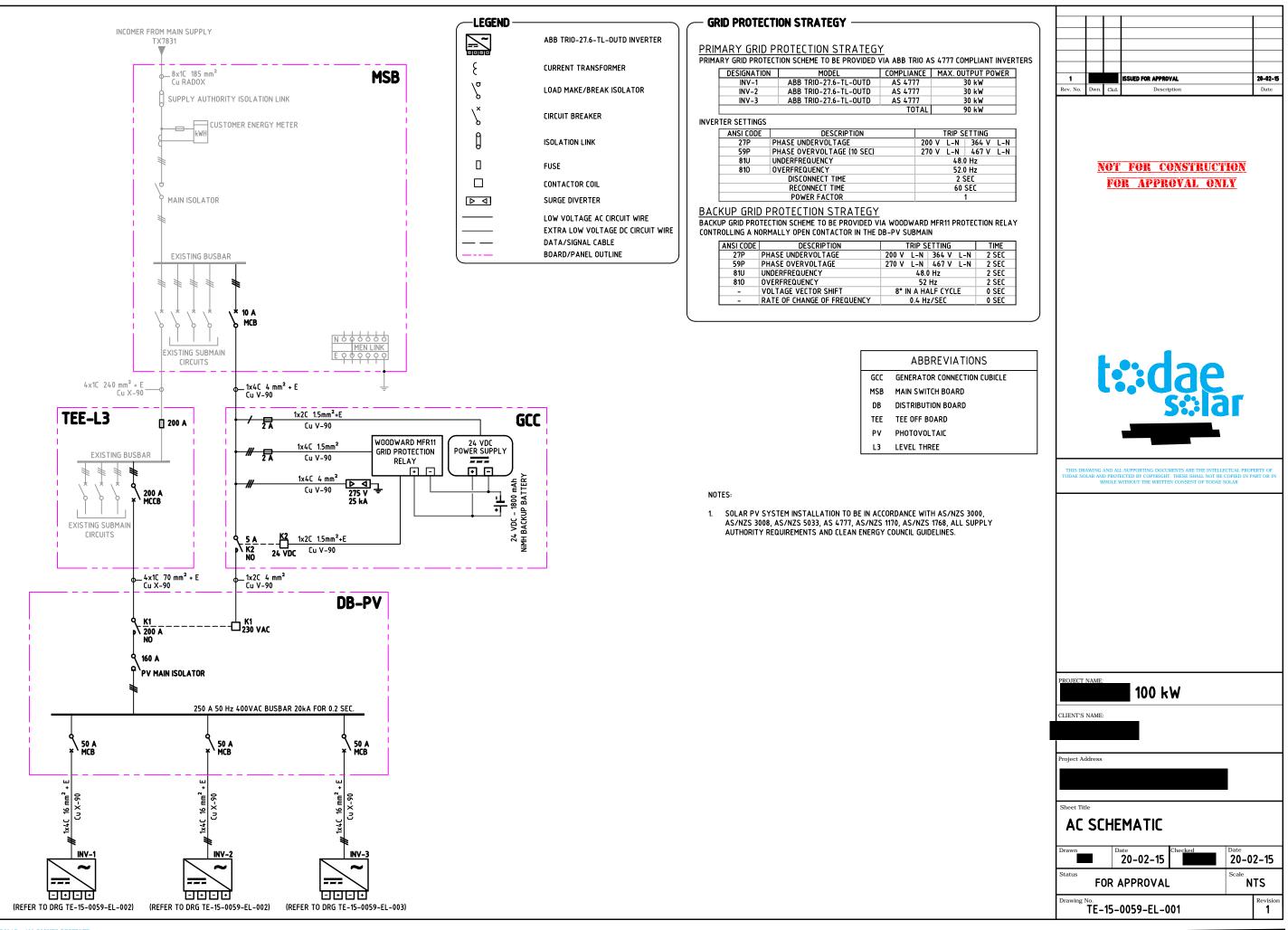
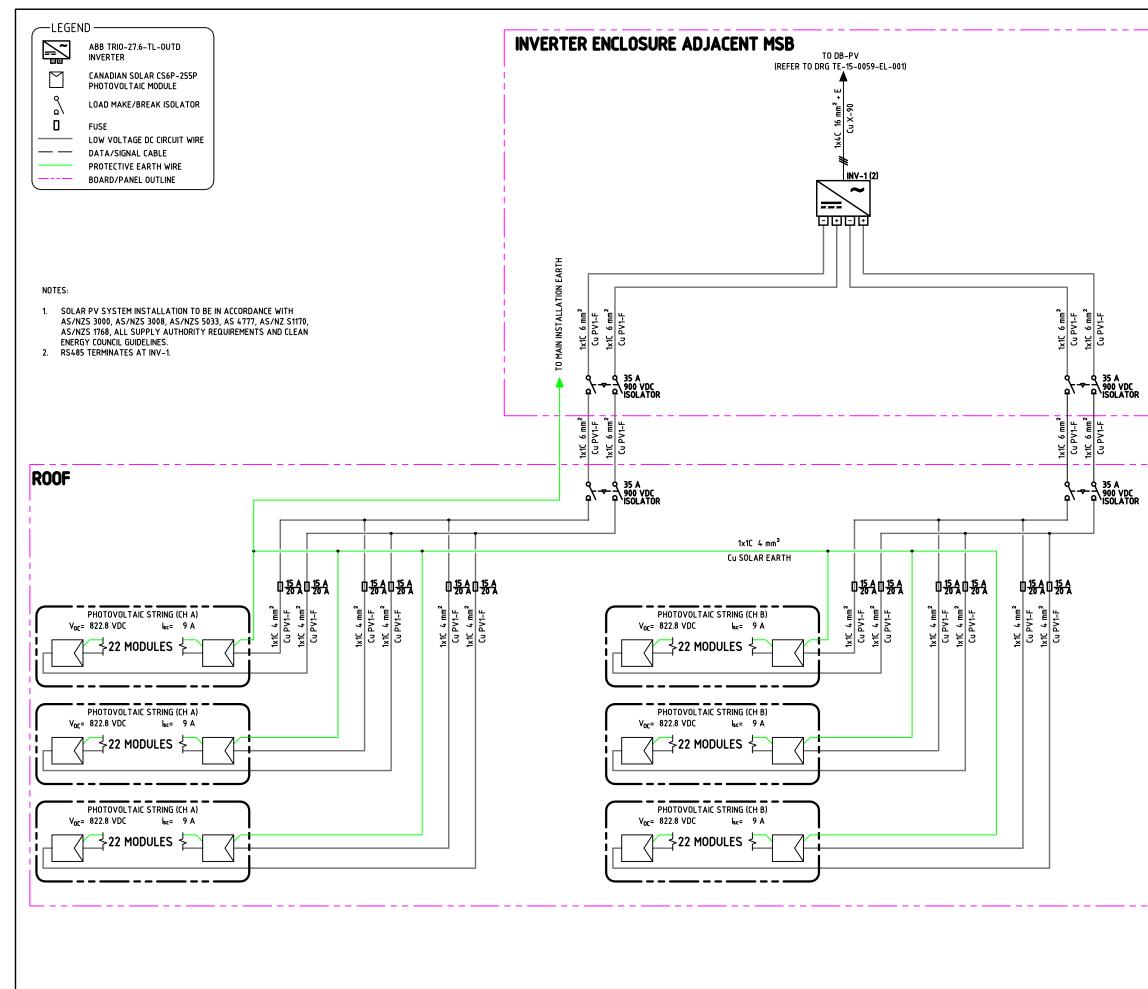
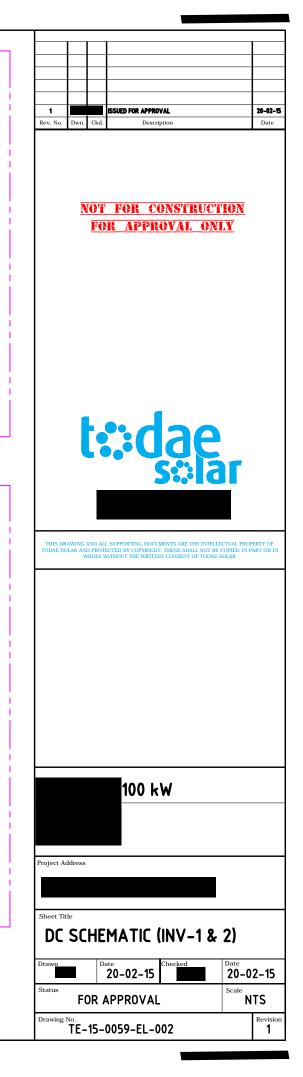
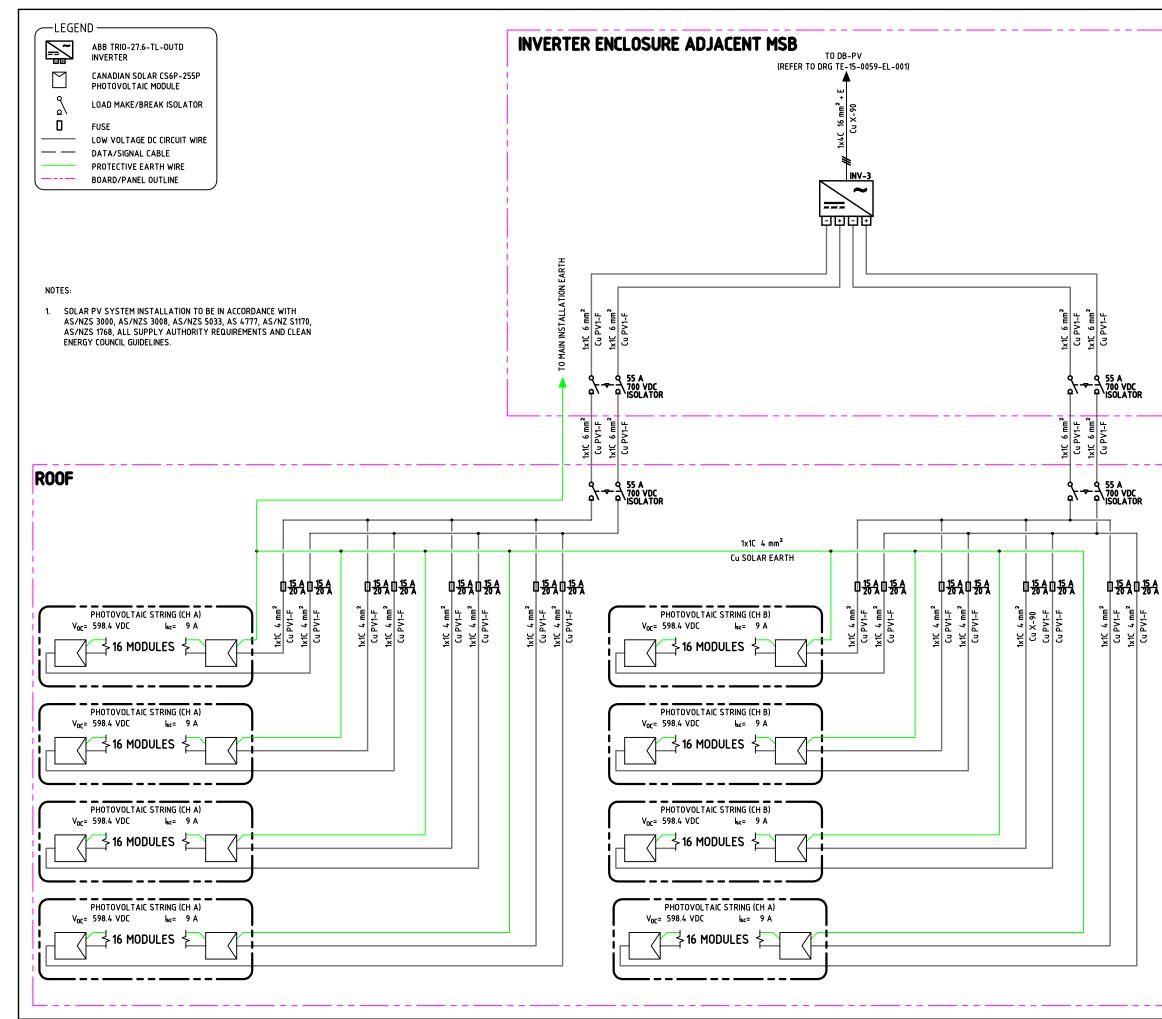
1. Technology: Solar PV

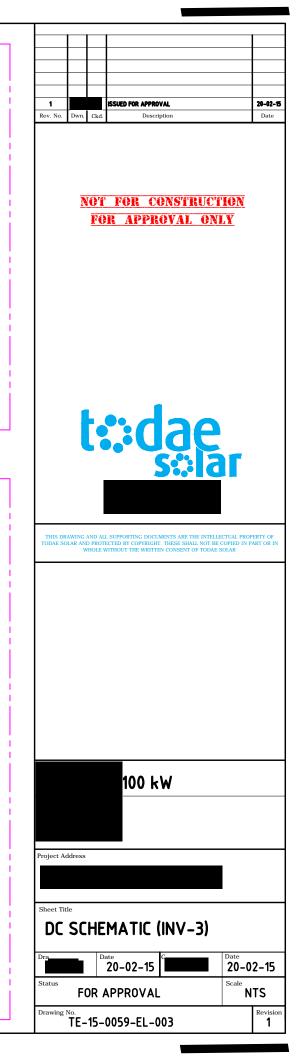
- 2. Maximum Power: 100kW
- 3. Contribution to fault levels: N/A
- 4. Size & rating of the relevant Transformer: N/A
- 5. Single line diagram: refer to following page
- 6. Protection Systems & Communication Systems: refer to following page
- 7. Voltage Control and reactive power capability: N/A8. Details specific to the location of facility: N/A











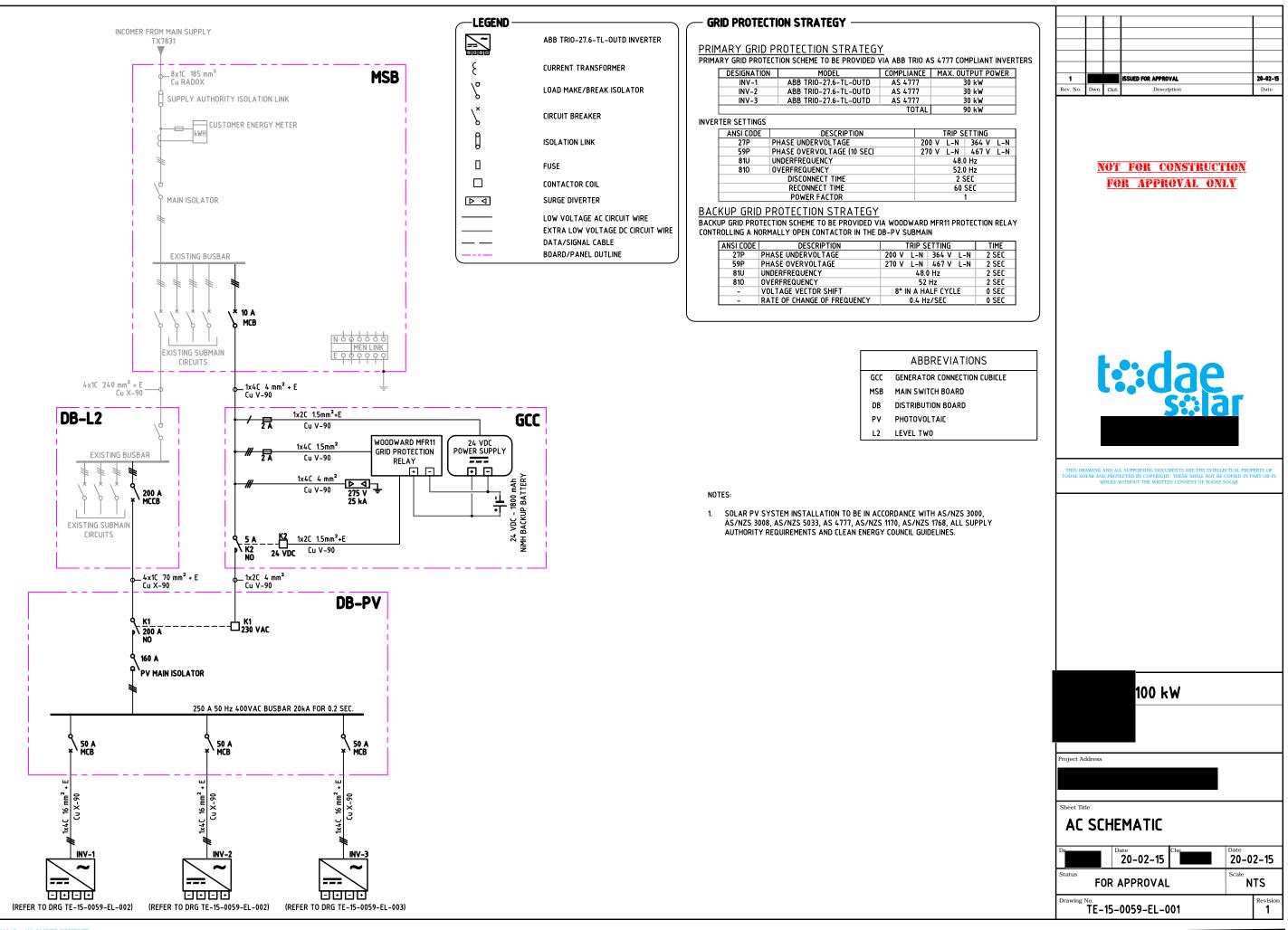




ABB Stringsizer - Configuration Report

Location	Temperature (°C)	Amb	Cell	 Mounting method
CONTINENT Oceania	Minimum	-3°C	-3°C	Flush on roof
COUNTRY Australia	Average	18°C	53°C	
LOCATION MC - Sydney	Maximum	46°C	81°C	

Inverter Model TRIO-27.6-TL-OUTD BASE	
Rated AC Power [kW]/ Rated AC Voltage [V] 27600 / 400	· · · · ·
Mppt Configuration INDEPENDENT MPPT (Num. MPPT ind.: 2)	
Total number of PV modules 132	-
Installed DC Power (STC) [kW] 33660	
Notes The selected inverter dont'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) Canadian Solar / CS6P-255P	
Technology	
STC Rated Power [W] 255	
Open Circuit Voltage - Voc [V] 37.4	
Short Circuit Current - Isc [A] 9	
Maximum Power Voltage - Vmp [V] 30.2	
Maximum Power Current - Imp [A] 8.43	
Temperature Coefficient - Voc [V/°C] -0.13	
Temperature Coefficient - Isc [mA/°C] 5.48	

	MPPT1	МРРТ2			
PV Panels/String	22	22			
Number of Parallel Strings	3	3			
Total number of PV modules	66	66			
Notes	1, 2, 3	1, 2, 3			
Installed DC Power (STC) [kW]	16.83	16.83			
Maximum Power/MPPT [kW]	16.00	16.00			
PPV(INST),MPPTi/PMPPTMAX	105.2%	105.2%			
PPV(inst)/PACR	122.0%				
PPV(inst)/PACMAX	112.2%				
PV Panel Max System Voltage [Vdc]	1000	1000			
Inverter Maximum Input Voltage [Vdc]	1000	1000			
String Open Circuit Voltage @-3°C [Vdc]	902.9	902.9			
String Open Circuit Voltage @81°C [Vdc]	662.6	662.6			
Inverter Activation Voltage (default) [Vdc]	430	430			
Inverter Recommended Activation Voltage [Vdc]	Default (430)	Default (430)			
String Max Power Voltage @-3°C [Vdc]	726.0	726.0			
String Max Power Voltage @53°C [Vdc]	602.8	602.8			
String Max Power Voltage @81°C [Vdc]	541.2	541.2			
Inverter MPP Operating Range* [Vdc]	301 - 950	301 - 950			
PV Array Max Short Circuit Curr. @81°C [Adc]	27.9	27.9			
Inverter Max Short Circuit Current/MPPT [Adc]	40	40			
PV Array MPP Current @81°C [Adc]		26.2			
Inverter Max MPPT Input Current [Adc]	32	32			
Notes legend	*) Range for MPPT operation considering the voltage default activation; 1)- Designer Note: Possibility of output power limiting; 2)- The number of strings in parallel exceeds the number of inputs on the inverter: please provide an esternal string box.; 3)- Number of parallel strings greater than 2. Verify the need to install fuses for reverse current protection				

Terms and Conditions of Use: By using this design tool you are agreeing that it is for estimating the string configurations that can be used with the ABB inverters only. ABB makes no claim as to its accuracy in predicting actual performance of your PV system or the inverter or its compliance with codes and standards in force at your project location.

project location. 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.





ABB Stringsizer - Configuration Report

Location	1	Femperature (°C)	Amb	Cell	 Mounting method
CONTINENT Oceania		Minimum	-3°C	-3°C	Flush on roof
COUNTRY Australia		Average	18°C	53°C	
LOCATION MC - Sydney		Maximum	46°C	81°C	



PV Panel (manufacturer / model) Canadian Solar / CS6P-255P	
Technology	
STC Rated Power [W] 255	
Open Circuit Voltage - Voc [V] 37.4	
Short Circuit Current - Isc [A] 9	
Maximum Power Voltage - Vmp [V] 30.2	
Maximum Power Current - Imp [A] 8.43	
Temperature Coefficient - Voc [V/°C] -0.13	
Temperature Coefficient - Isc [mA/°C] 5.48	

	MPPT1	МРРТ2			
PV Panels/String	16	16			
Number of Parallel Strings	4	4			
Total number of PV modules	64	64			
Notes	1, 2, 3	1, 2, 3			
Installed DC Power (STC) [kW]	16.32	16.32			
Maximum Power/MPPT [kW]	16.00	16.00			
PPV(INST),MPPTI/PMPPTMAX	102.0%	102.0%			
PPV(inst)/PACR	118.3%				
PPV(inst)/PACMAX	108.8%				
PV Panel Max System Voltage [Vdc]	1000	1000			
Inverter Maximum Input Voltage [Vdc]	1000	1000			
String Open Circuit Voltage @-3°C [Vdc]	656.6	656.6			
String Open Circuit Voltage @81°C [Vdc]	481.9	481.9			
Inverter Activation Voltage (default) [Vdc]	430	430			
Inverter Recommended Activation Voltage [Vdc]	Default (430)	Default (430)			
String Max Power Voltage @-3°C [Vdc]	528.0	528.0			
String Max Power Voltage @53°C [Vdc]	438.4	438.4			
String Max Power Voltage @81°C [Vdc]	393.6	393.6			
Inverter MPP Operating Range* [Vdc]	301 - 950	301 - 950			
PV Array Max Short Circuit Curr. @81°C [Adc]	37.2	37.2			
Inverter Max Short Circuit Current/MPPT [Adc]	40	40			
PV Array MPP Current @81°C [Adc]	34.9	34.9			
Inverter Max MPPT Input Current [Adc]	32	32			
Notes legend	 *) Range for MPPT operation considering the voltage default activation; 1)- Designer Note: Possibility of output power limiting; 2)- The number of strings in parallel exceeds the number of inputs on the inverter: please provide an esternal string box.; 3)- Number of parallel strings greater than 2. Verify the need to install fuses for reverse current protection 				

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