



May, 2016

Tigo Energy, Inc.
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Manufacturers Declaration:

DETERMINING PV ARRAY MAXIMUM VOLTAGE

Tigo Energy hereby declare that the output voltage rating of our TS4-x products is 0-Voc (the modules Voc) as per Tigo's TS4 specification sheets; therefor the correct method for determining PV Array Maximum Voltage based on AS/NZS 5033:2014 is to be found under section 4.2 of this standard.

TIGO TS4-X PLATFORM, AS IT RELATES TO AS/NZS 5033:2014, CLAUSE 2.1.5

"In considering the voltage and current **rating of equipment downstream** of this circuit, **IF** the d.c. conditioning unit is failsafe so that **no greater voltage that the rating of the PCE to which it is connected** can be produced under normal operating or single fault conditions, the d.c switch-disconnector and cabling may be rated to the PCE maximum rated input voltage and maximum rated input current.

In this case, for the purpose of this standard, the following applies:"

- (i) Array maximum voltage = PCE maximum rated input voltage.
- (ii) Where the d.c. conditioning unit are used as shown in figure 2.7, the output circuit of these units shall be considered to be the PV string for purposes of this standard.

****NOTE* The d.c. conditioning equipment described in the above statement is not a description of Tigo Energy's TS4-x products *noted by the IF, therefor section (i) and (ii) are not relevant to Tigo TS4-x products, and AS/NZS 5033:2014, clause 4.2 is to be followed when determining maximum array voltage with all TS4-x based products.***

Tigo Energy's TS4 platform complies with all the statements made in AS/NZS 5033:2014, Clause 2.1.5 - Strings constructed using DC conditioning units.

Tigo's TS4-x:
TS4-D
TS4-M
TS4-S
TS4-O

Please contact Tigo Energy support if you need any further assistance.



Tigo's TS4-x specification sheet clearly indicates that the maximum voltage of each (Tigo) d.c. conditioning unit is the PV module Voc. In this case, string design is always such that sum of PV modules Voc in series is lower than the maximum is determined by the PCE maximum voltage; Therefore, Tigo Energy's TS4 units listed above comply with all the requirements of this standard.

Tigo's TS4-x specification sheet for TS4-L clearly indicates that the maximum voltage of each (Tigo) DC conditioning unit is the Vmax. Vmax is PV module manufacturer factory setting, and it appears on each PV module specification sheet and name-plate as the maximum output voltage (Voc) of the module equipped with the TS4-L. In this case, string design is always such that sum of PV modules Vmax in series is determined by the PCE maximum voltage; Therefore, Tigo Energy's TS4-L complies with the requirements of the standard.

Please contact Tigo Energy support if you need any further assistance.