

April 24, 2017

RE: Compatibility of Module-Level Electronics with Yaskawa – Solectria Solar Transformerless Inverters

To Whom It May Concern,

Yaskawa – Solectria Solar has supported limited testing of some module- level power electronics (i.e. optimizers) with our transformerless string inverter products. Depending on the inverter selection, Yaskawa – Solectria Solar cannot guarantee the proper operation of all inverter functions when used in conjunction with optimizers, including but not limited to arc fault detection, compliance of the system to EMI regulations and the energy production of the system. Please see **Table 1: MLPE Compatibility with Yaskawa – Solectria Solar Transformerless Inverters** below to determine which TL inverters are/are not compatible. It is the sole responsibility of the system designer to determine proper operation of inverter functions if optimizers are integrated within the PV system. In some instances the inverter’s arc fault feature may need to be disabled in order to avoid nuisance tripping. Yaskawa – Solectria Solar is not liable for, and takes no responsibility for, any compliance issues or damage to the PV system as a result of operating with optimizers and resulting from any changes made to the inverter.

Because the optimizers are controlling the DC side, Yaskawa – Solectria Solar has to limit its technical support of these inverters when used with optimizers to AC side issues only. Yaskawa – Solectria Solar is not in a position to provide technical support for DC side issues. Further, damage to the inverter that can be shown to be caused by optimizers will not be covered by the warranty.

Table 1: MLPE Compatibility with Yaskawa – Solectria Solar Transformerless Inverters

Yaskawa – Solectria Solar Product	Optimizer Compatibility	Future Plans
PVI 3800TL, PVI 5200TL, PVI 6600TL & PVI 7600TL	Currently Under Test	Evaluating TIGO TS4 family and MAXIM GEN 2 family. If compatibility is determined, Yaskawa – Solectria Solar will publish an <u>additional</u> letter.
PVI 14TL & PVI 20TL	No compatibility testing planned	No compatibility testing planned
PVI 23, PVI 28TL & PVI 36TL	Only Tigo TS4 Family + Inverter Arc Firmware of 0.5 and Newer.	Evaluating MAXIM GEN 2 Family. If compatibility is determined, Yaskawa – Solectria Solar will publish an <u>additional</u> letter.
PVI 50TL & PVI 60TL	Currently Under Test	Evaluating TIGO TS4 family and MAXIM GEN 2 family. If compatibility is determined, Yaskawa – Solectria Solar will publish an <u>additional</u> letter.

Regards,



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