While coming up with a decision to make, N.A.M.-I Power decided on 3-phase full-bridge rectifier with buck converter. Underneath that decision lies a couple reasons.

* Buck converter offers a wide range of switching frequency choice. This gives more precision on controlling as well as adjusting output ripple.
* 3-phase full-bridge rectifier with buck converter provides a wide range of component selection. After determining the power demand, one can decide on components to use.
* While designing a buck converter, one has the ability to adjust the ripple of output. This offers a trade-off between performance and cost. While designing this converter, it is possible to decide on a low ripple to care for performance and buy more expensive components or decide on a higher ripple to save from component expenses, or a middle point somewhere in-between. Buck converter provides this flexibility.
* Buck converter is more efficient than its alternatives for higher duty cycle values.