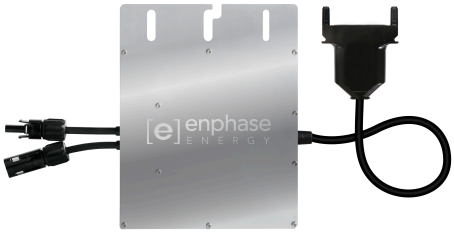
Know the Difference

Microinverters vs String Inverters with DC Optimizers

There are microinverter systems and string inverter systems. DC optimizers are a more complicated string inverter system. A system is only as reliable as its weakest link, and the string inverter is the weakest link in any DC optimizer system. Microinverters reduce system complexity and are easier to design and install.

		
Flexible design	☑ • No string sizing • Multiple configurations • All-AC design	☒ • String sizing • Minimum system size is 8 panels • DC and AC design required
Easier installation	☑ • Simple all-AC installation • No DC electrical work • No mounting a string inverter	☒ • Added complexity with DC and AC electrical work • Design changes in field are difficult
Greater productivity	☑ • No single point of failure	☒ • Inverter is a single point of system failure
Higher reliability	☑ • NEMA 6 enclosure and ultra-reliable components	☒ • Inverter has NEMA 3R enclosure • Avoid installation in direct sunlight
Longer warranty	☑ • 25 years	☒ • Inverter is covered for 10-12 years
Increased safety	☑ • Low voltage DC never exceeds 60 volts	☒ • Up to 600-1,000 volts DC on roof

Visit enphase.com/microinverters to learn more.

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