

Distributed Optimization Players

	Tier 1	Tier 2	Other
Distributed MPPT	Satcon	Nexttronex Sustainable Energy Tech.	HiQ Solar MPPC Tech. Array Converter
Standalone Micro-Inverter*	Enphase Energy	Delta Power-One SMA Enecsys Involar GreenRay	Clarian Exeltech Sparq Systems Stellaris
Standalone DC Optimization*	SolarEdge Tigo Energy	eIQ Energy Power-One	Accurate Solar Azuray EHW Research Xandex
OEM Optimization		Direct Grid Tech. National Semiconductor SolarBridge STMicroelectronics	Larankelo Microchip
Cell-Level Optimization		tenKsolar	SunSil Wipro
Smart Grid/Value-Add Optimization	Petra Solar	XET	Apparent Transphorm

*Many of these firms are also pursuing OEM Optimization with module suppliers

Source: GTM Research

