UL 3741 VS MLPEs

DUAL PATHWAYS FOR RAPID SHUTDOWN

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	UL3741 PV HAZARD CONTROL SYSTEMS	MODULE-LEVEL POWER ELECTRONICS (RSDS, OPTIMIZERS, & MICROINVERTERS)
KEY ADVANTAGES	• Provides multiple layers of enhanced electrical protection for firefighters who may need to perform work in the proximity of PV arrays. • Consolidates arrays layouts and provides greater accessibility for roof laborers, installers, and maintenance workers across multiple industries.	• Simplified method to deenergize conductors in a PV array where rapid shutdown is required. • Allows for flexible design layout on roofs with complicated geometries. • Module-level power optimization for more efficient production on roofs with shading throughout the day.
TARGET ROOF TYPES	• Large continuous arrays with minimal obstructions and/or subarrays.	• Roofs with multiple and/or varied mounting planes. • Roofs with severe shading. • Roofs with multiple broken up arrays.
O&M ACCESSIBILITY	• Eliminates the need to service failed MLPEs in the middle of a large array. • More robust wire management for system longevity. • Fewer physical DC-to-DC connectors which are potential failing points in PV system. • Reduces E-waste.	• Module-level monitoring for faster identification of electric issues. • Oversee performance of modules at an individual level, in real time.
FINANCIAL IMPACT	• Lower upfront cost with the elimination of MLPEs. • Faster return on investment (ROI). • Eliminates labor cost of O&M on MLPEs.	• Optimizes system to maximize the total power produced by the PV system. • Potentially less upfront design work with standardized process procedures.
RAPID-SHUTDOWN COMPLIANCE	• String-level PV Hazard Control as referenced in NEC 690.12 (B)(2)(1)	• Conductor attenuation between modules Complies with NEC 690.12 (B)(2)(2)

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