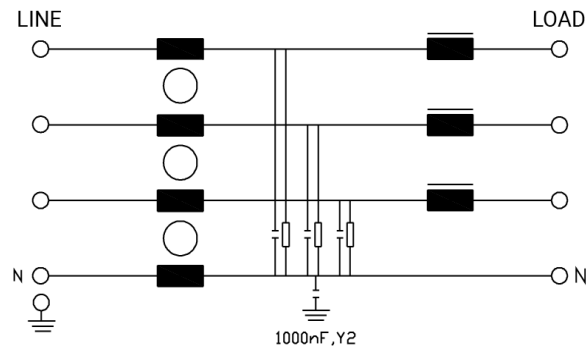




Power Line Filter Q-LCF-250-3P

In commercial applications, the Power Line Filter Q-LCF-250-3P, manufactured by Radius Power, separates power line communication (PLC) domains across the Enphase microinverter installation when multiple IQ Gateways are located on a single utility transformer or when site loads generate electrical noise that disrupts communications. Suitable for use with IQ6, IQ7, and IQ8 Commercial Series Microinverters.

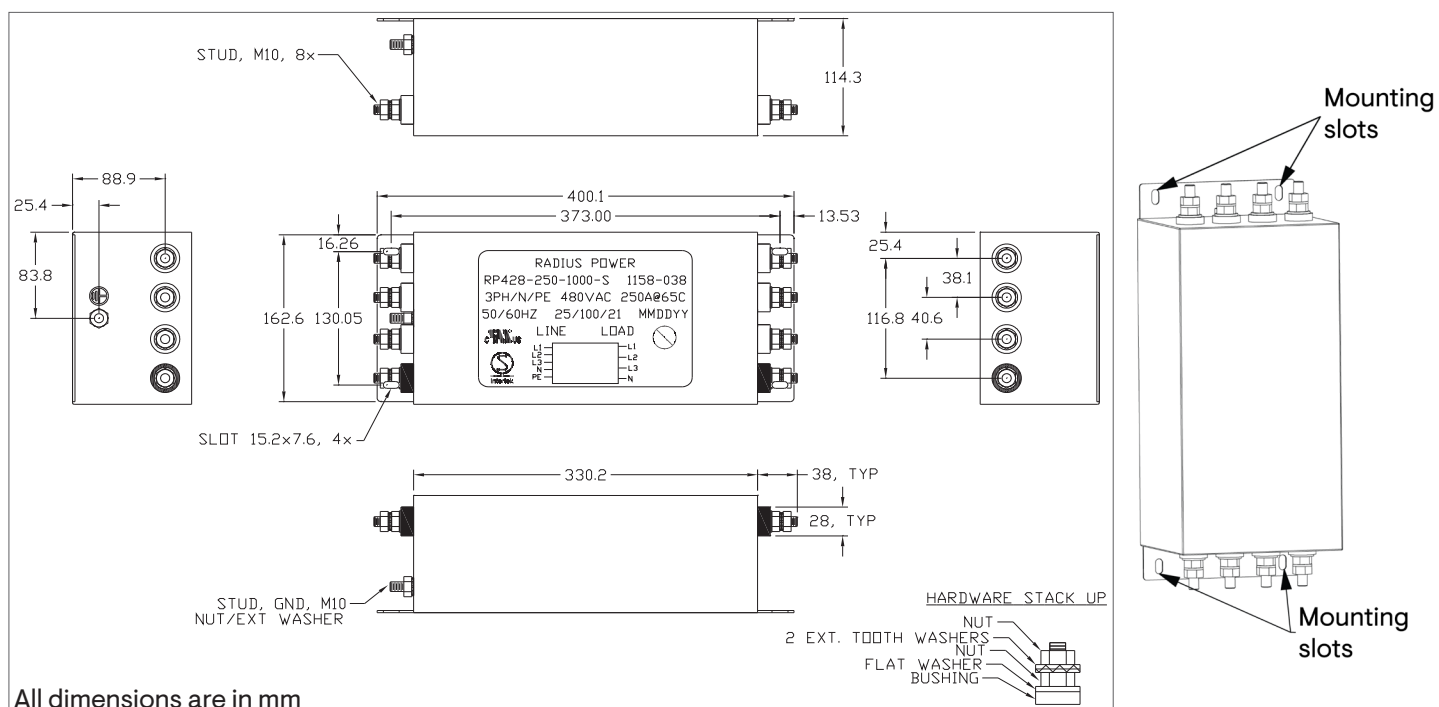
Schematic



Connect both Enphase IQ Gateway and Enphase microinverters on the array or load side of the filter and wire the utility feed to the line side of the filter.

Power Line Filter

MODEL NUMBER	
Q-LCF-250-3P	Three-phase line communication filter, 250 A, suitable for use with IQ6, IQ7, and IQ8 Commercial Series Microinverters
SPECIFICATIONS	
Maximum current per line	250 A (temperature adjusted to 65°C)
Maximum voltage	480 VAC + 10%
Frequency	50/60 Hz
Power dissipation	75 W max (current dependent)
Ambient temperature range	-40°C to 65°C (-40°F to 149°F)
Weight	13.6 kg (29.98 lbs)
Dimensions	400.1 mm × 162 mm × 114.3 mm (15.75" × 6.36" × 4.5")
RoHS/Safety	Yes/cURus, EN60939
Terminal style/size	Stud/M10
Typical leakage current	<10 mA (480 V/50 Hz or 60 Hz)



- Recommended torque for M10 terminals is 18 N m (160 in-lb).
- Recommended conductor size for 250 A continuous is AWG 4/0.
- Mount in an appropriate enclosure using the mounting holes.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00044-1.0	May 2023	Initial release