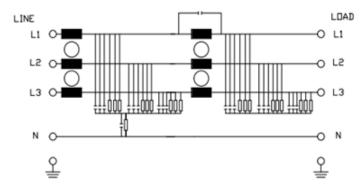




PLC Line Filter

In commercial applications, the QD-LCF-400-3P Line Filter, manufactured by Astrodyne, separates power line communication domains across the Enphase IQ8P-3P or IQ8H-3P Microinverters installation when multiple Enphase IQ Gateway Commercial 2 are located on a single utility transformer or when site loads generate electrical noise that disrupts communication.

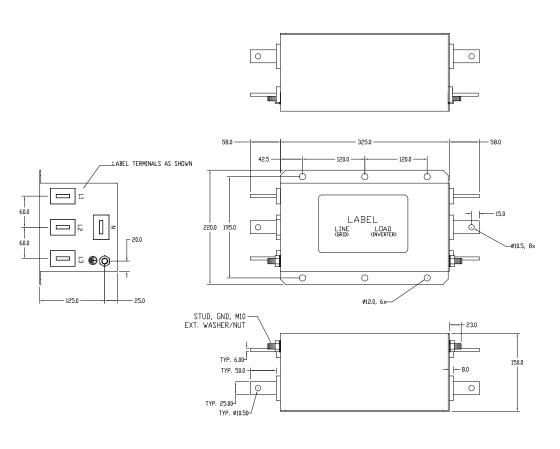
Schematic



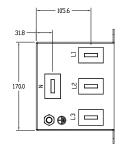
Connect both Enphase IQ Gateway Commercial 2 and Enphase IQ8P-3P or IQ8H-3P Microinverters on the array or load side of the filter, and wire the utility feed to the line side of the filter.

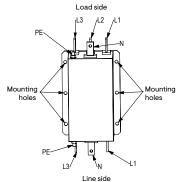
Power Line Filter

MODEL NUMBER		
QD-LCF-400-3P	Three-phase line communication filter, 400 A, suitable for use with IQ8P-3P or IQ8H-3P Microinverters only	
SPECIFICATIONS		
Maximum continuous current per line	400 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	31.0 lbs (14.1 kg)	
Dimensions	441 mm x 170 mm x 150 mm (17.36" x 6.69" x 5.90")	
Phase coupler	Not required	
RoHS/Safety	Yes/cURus, EN60939	
Terminal style/size	Ground terminal = M10, bus bar = 25 mm with M10 bolt	
Typical leakage current	<10 mA (480 V, 50/60 Hz)	
Insertion loss (80 kHz-130 kHz)	>50 dB	
Impedance (80 kHz-130 kHz)	>100 Ω	



All dimensions are in mm





- Recommended torque for M10 terminals is 18 N m (160 in-lb)
- Recommended conductor size for 400 A continuous is 500 kcmil
- · Mount in an appropriate enclosure using the mounting holes

Revision history

REVISION	DATE	DESCRIPTION		
DSH-00252-1.0	November 2023	Editorial updates.		
Previous releases.				