

Demand Line Plus

Demand Line Plus System with Harmonic Suppression Reactors

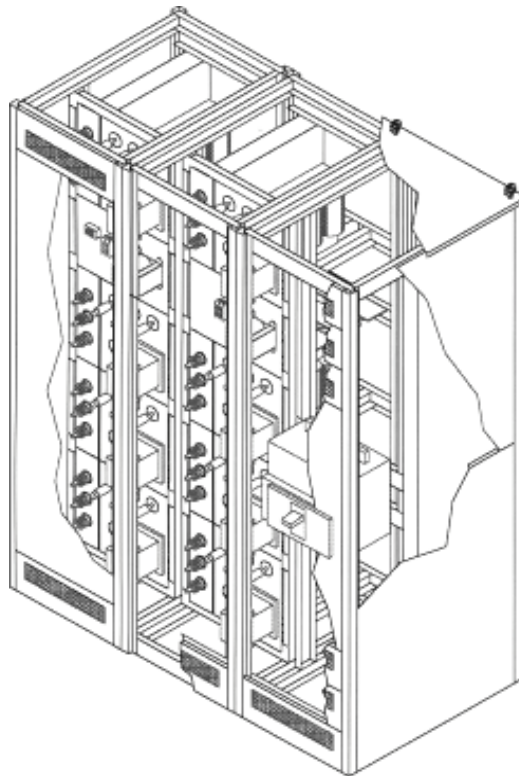
Many of today's power systems require modern solutions to power factor correction. The rapid increase in variable speed drive use and other solid state devices has resulted in severe harmonic loads on power systems. **Ultravar has more than ten years of experience in preventing the occurrence of non-sinusoidal resonance.** Successful integration in tuned L-C networks solves the problem of parallel resonance.

The IDL automatic power factor correction systems with 3-phase harmonic suppression reactors are application-specific. Accordingly, each installation requires specific information to aid Ultravar Application Engineers in designing a system to meet your requirements. This information should include, but not be limited to, KVAR requirements, transformer

size and impedance, KVA_{sc} of the transformer, and a harmonic profile of your system. Load characteristics at the time of the survey and worst case should also be included.

The IDL systems may be configured for the addition of harmonic suppression reactors in the future to meet the imminent needs of your system. This reduces initial investment and provides a ready made retrofit package.

The Demand Line system provides total flexibility in achieving maximum automatic power factor correction. Please contact your Ultravar sales representative for any assistance with your particular power factor correction and harmonic suppression needs.



IDLP System

Demand Line Plus

IDLP System • 240 - 480 - 600 volts • 3 phase • 60 Hz

Demand Line Plus

Designed for systems that require large KVAR ratings with and without harmonic suppression reactors. Readily adapted to meet specific requirements. Easily expanded and easy to retrofit with harmonic suppression reactors.

Demand Line Plus Features

- Designed and built to “match and line up” with motor control centers and switchgear.
- Industrial rated design and specifications.
- Dimensions are 90” H x 36” D and each modular section is 24” W.
- Modular design permits expansion to meet future requirements.
- Correction to unity power factor, if desired.
- NEMA 1 steel cabinet enclosure with ANSI #70 light grey paint-12-gauge frame and 14-gauge panels.
- Removable lifting eyes.
- UL and cUL listed.
- Microprocessor-based controller with built-in voltage, temperature, and harmonic alarms provides safe and rapid indication of potential or real failure. Digital display of power factor, current, and capacitor step status.
- Manual switching capability.
- External current transformer connections provided.
- 75 KAIC bracing.
- Plated copper bus.
- Top entry.
- Capacitor stage display.
- Industrial duty, UL approved metallized electrode capacitors, employing 200 KAIC current-limiting fuses in all 3 phases.
- Air core inductors to limit inrush currents and transients.
- Designed to minimize installation time and costs.
- Door interlock to prevent entry while system is energized.
- Padlockable door handle (Indoor only).
- Convection cooling - no fans required.

IDLP

Optional Equipment Features

- Blown fuse indicator lights
- Outdoor NEMA 3R enclosure.
- Split core current transformer.
- Molded case circuit breaker internally mounted with external operator or system breaker.
- UL listed service entrance, 3 wire only.
- Hand-off auto switches.
- Reverse layout.
- Bottom entry.
- Harmonic suppression equipment.
- Power on/off switch



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Volts	IDLP					
	KVAR	Ultravar Catalog No.	KVAR Per Step	Weight (lbs)		Enclosure Width (in/mm)
				without reactors	with reactors	
240	100	IDLP4100D255	25	1094	1634	48"/1219mm
	150	IDLP6150D255	25	1223	2033	48"/1219mm
	200	IDLP8200D255	25	1352	2432	72"/1829mm
	225	IDLP9225D255	25	1417	2632	72"/1829mm ¹
	250	IDLP10250D255	25	1481	2831	72"/1829mm ¹
	300	IDLP12300D255	25	1610	3230	96"/2438mm
480/ 600	200	IDLP3200F505	50	686	997	24"/609mm ¹
	250	IDLP3250F505	50	713	1071	24"/609mm ¹
	300	IDLP3300FA05	100	740	1145	24"/609mm ¹
	350	IDLP4350F505	50	1067	1560	48"/1219mm
	400	IDLP4400FA05	100	1094	1634	48"/1219mm
	450	* IDLP5450F505	50	1132	1760	48"/1219mm
	500	* IDLP5500FA05	100	1159	1834	48"/1219mm
	550	* IDLP6550F505	50	1196	1959	48"/1219mm
	600	* IDLP6600FA05	100	1223	2033	48"/1219mm
	650	IDLP7650F505	50	1261	2159	48"/1219mm ¹
	700	* IDLP7700FA05	100	1288	2233	48"/1219mm ¹
	750	IDLP8750F505	50	1615	2648	72"/1829mm
	800	IDLP8800FA05	100	1642	2722	72"/1829mm
	850	IDLP9850F505	50	1680	2848	72"/1829mm
	900	* IDLP9900FA05	100	1707	2922	72"/1829mm ¹
	950	IDLP10950F505	50	1744	3047	72"/1829mm ¹
	1000	* IDLP10A00FA05	100	1771	3121	72"/1829mm ¹
	1100	* IDLP11B00FA05	100	1836	3321	72"/1829mm ²
	1200	IDLP12C00FA05	100	2190	3810	96"/2438mm ³
	1300	* IDLP13D00FA05	100	2255	4010	96"/2438mm ²
1400	* IDLP14E00FA05	100	2319	4209	96"/2438mm ²	
1500	IDLP15F00FA05	100	2674	4699	120"/3048mm ²	

1 - Enclosure width increases 24"/609mm w/breaker.
2 - Enclosure width increases 32"/813mm w/breaker.

* = Top entry only; consult factory for bottom entry.

Notes: For 600 volts - replace F with H. Consult factory for 240 volt applications.

Larger KVAR sizes available; contact factory for sizes.

50 KVAR steps available 200 to 2400 KVAR - contact factory representative for part numbers and sizes.

Outline Dimensions (inches)

