

MPDB Series

Open-Style Power Distribution Blocks

POWER DISTRIBUTION BLOCKS

THE NEXT GENERATION POWER DISTRIBUTION BLOCK (PDB)



Mersen power distribution blocks provide a safe and easy method of splicing cables, splitting primary power into secondary circuits and fulfilling requirements for fixed junction tap-off points. Unless noted otherwise, all blocks are UL and CSA approved while meeting spacing requirements for feeder and branch circuits in conjunction with UL508A and the National Electrical Code®. PDB options include single or dual conductor primary inputs and up to 30 secondary outputs. Specialty blocks are available allowing for up to 7 primary inputs. The MPDB series is offered in three size categories: miniature (MPDB62 and MPDB63 series), intermediate (MPDB66 and MPDB67 series), and large (MPDB68 and MPDB69 series), in both aluminum and copper.

FEATURES/BENEFITS:

- **Adder Poles:** All sizes have optional adder poles for increased flexibility and ease-of-use. Adder poles can be stacked to form multi-pole units in the field without the use of tools. Adder poles allow for customization of primary and secondary wire combinations. End barriers are also available for sale, catalog numbers can be found in the catalog number selection tables for each size block.
- **Wire Connectors:** Standard aluminum and copper wire connectors are available. Aluminum connectors accept both AL or CU wire while copper connectors accept CU wire only. Connectors are all 1-piece tin-plated. Many part numbers are rated to accept DLO-type fine-strand wire, allowing users to connect flexible conductors. (Continued on next page.)

RATINGS:

- **Volts:** 1000VAC/DC
- **Amps:** 65 to 2260A based on NEC table 310.15(B)(16) 75°C ampacities
- **SCCR:** 100kA with properly sized fuse (See Mersen's PDB SCCR guide at ep.mersen.com or contact Mersen Technical Services)

APPROVALS:

- UL Listed to subject 1953, File E352417 unless noted otherwise
- CSA Certified Class 6228 01



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FEATURES/BENEFITS (CONTINUED):

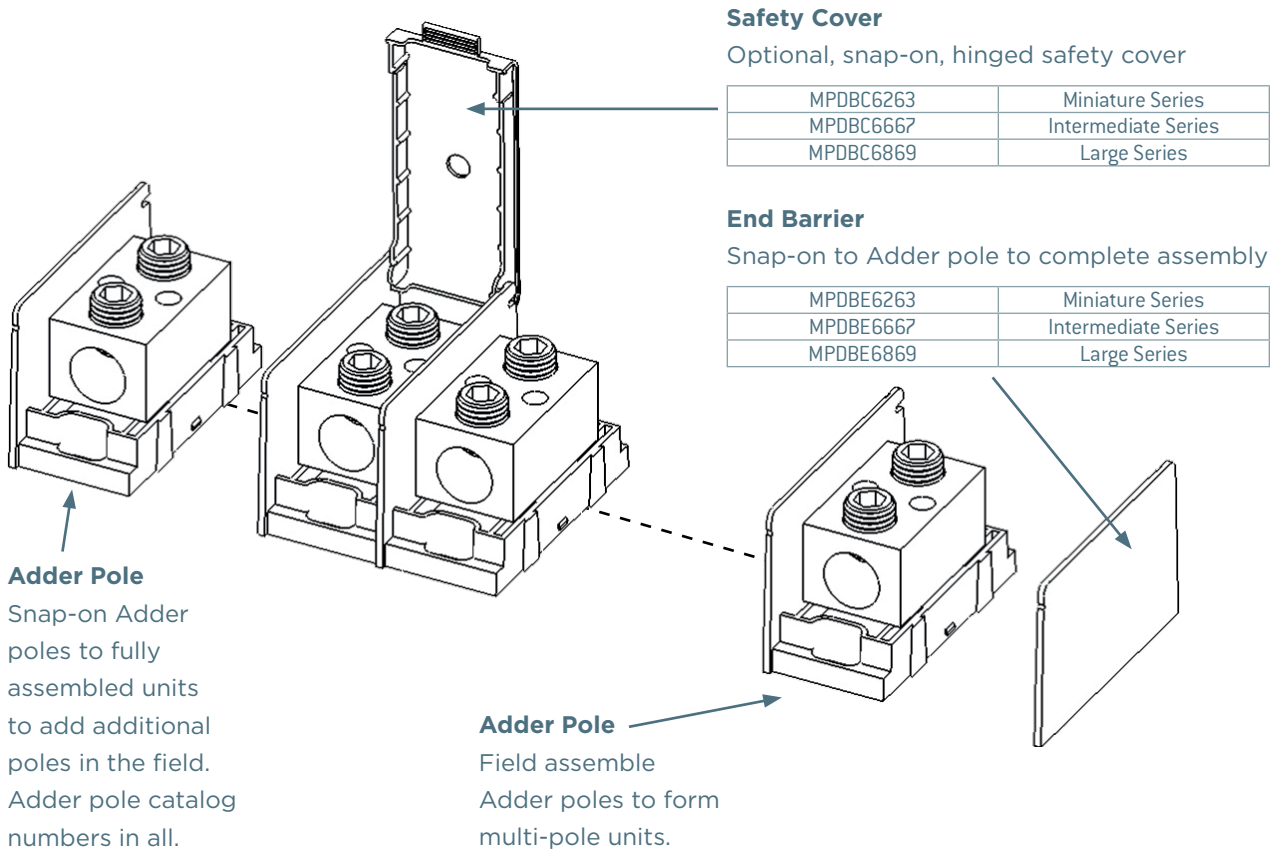
- **Insulators:** Insulators are virtually unbreakable, made of glass-filled polycarbonate. “See-through,” hinged safety covers are optional and provide a greater degree of safety and shock resistance where required. Hinged covers can be installed without tools.
- **Spacings:** 1 inch through air and 2 inches over surface between uninsulated live parts of opposite polarity meets requirements for feeder and branch circuit applications of UL508A.
- **Safety Covers:** Polycarbonate safety covers provide dead-front protection. One cover is needed for each pole. Each cover has a test probe hole in the center for circuit checking. Covers are optional accessories and catalog numbers can be found in the catalog selection tables for each size block.

ADDITIONAL SPECIFICATIONS:

Wire Type:	Copper Blocks: 60/75°C Solid/Stranded CU; Aluminum Blocks: 60/75/90°C Solid/Stranded AL and CU
Connector:	Copper Blocks: Highly conductive tin-plated copper; Aluminum Blocks: Highly conductive tin-plated aluminum
Insulating Material:	Glass-filled polycarbonate with verified dielectric strength in excess of 2500V
Flammability:	UL94-V0
Mounting:	Direct panel mount
Environmental:	RoHS compliant, Lead Free

PART SELECTION NOTES

MPDBs in each size category come in one, two, and three pole configurations (ending in -1, -2, and -3 accordingly). Users also have the ability to field install additional poles, end barriers, and safety covers.



CATALOG NUMBERS, INTERMEDIATE ALUMINUM MPDBs,
BOX-BOX CONFIGURATION

Line Side		Load Side		Catalog Numbers				Amp Rating per Pole	
Wire Range	Openings per Pole	Wire Range	Openings per Pole	ADDER	1-P	2-P	3-P	Cu Wire	Al Wire
2/0-14	1	2/0-14	1	MPDB67050	MPDB67051	MPDB67052	MPDB67053	175	135
2/0-14	1	2-14	4	MPDB67570	MPDB67571	MPDB67572	MPDB67573	175	135
1/0-14 (DLO)		4-14 (DLO)						150 (DLO)	
2/0-14	1	2-14	6	MPDB67560	MPDB67561	MPDB67562	MPDB67563	175	135
1/0-14 (DLO)		4-14 (DLO)						150 (DLO)	
2/0-14	1	2-14	8 ^M	MPDB67580	MPDB67581	MPDB67582	MPDB67583	175	135
1/0-14 (DLO)		4-14 (DLO)						150 (DLO)	
2/0-14	1	6-14	10 ^M	MPDB67590	MPDB67591	MPDB67592	MPDB67593	175	135
1/0-14 (DLO)		8-14 (DLO)						150 (DLO)	
2/0-14	1	10-14	12	MPDB67110	MPDB67111	MPDB67112	MPDB67113	175	135
1/0-14 (DLO)		12-14 (DLO)						150 (DLO)	
350-6	1	350-6	1	MPDB67000	MPDB67001	MPDB67002	MPDB67003	310	250
313-6 (DLO)		313-6 (DLO)						285 (DLO)	
350-6	1	2/0-14	2 ^M	MPDB67010	MPDB67011	MPDB67012	MPDB67013	310	250
313-6 (DLO)		1/0-14 (DLO)						310	
350-6	1	2-14	4 ^M	MPDB67670	MPDB67671	MPDB67672	MPDB67673	310	250
313-6 (DLO)		4-14 (DLO)						285 (DLO)	
350-6	1	2-14	6	MPDB67660	MPDB67661	MPDB67662	MPDB67663	310	250
313-6 (DLO)		4-14 (DLO)						285 (DLO)	
350-6	1	2-14	8	MPDB67630	MPDB67631	MPDB67632	MPDB67633	310	250
313-6 (DLO)		4-14 (DLO)						285 (DLO)	
350-6	1	6-14	10	MPDB67650	MPDB67651	MPDB67652	MPDB67653	310	250
350-6	1	10-14	15	MPDB67620	MPDB67621	MPDB67622	MPDB67623	310	250
500-4	1	500-4	1	MPDB67400	MPDB67401	MPDB67402	MPDB67403	380	310
500-4	1	350-6 & 2-14	1 & 3	MPDB67450	MPDB67451	MPDB67452	MPDB67453	380	310
500-4	1	4/0-10	2	MPDB67420	MPDB67421	MPDB67422	MPDB67423	380	310
500-4	1	2/0-14	4 ^M	MPDB67410	MPDB67411	MPDB67412	MPDB67413	350	310
373-4 (DLO)		1/0-14 (DLO)	4					320 (DLO)	
500-4	1	2/0-14	6 ^M	MPDB67460	MPDB67461	MPDB67462	MPDB67463	350	310
373-4 (DLO)		4-14 (DLO)	6					320 (DLO)	
500-4	1	2-14	8	MPDB67430	MPDB67431	MPDB67432	MPDB67433	380	310
500-4	1	6-14	10	MPDB67480	MPDB67481	MPDB67482	MPDB67483	380	310
500-4	1	10-14	18	MPDB67490	MPDB67491	MPDB67492	MPDB67493	380	310
2/0-14	2	2/0-14	2 ^M	MPDB67020	MPDB67021	MPDB67022	MPDB67023	350	270
1/0-14 (DLO)		1/0-14 (DLO)	2					300 (DLO)	
2/0-14	2	2-14	6	MPDB67510	MPDB67511	MPDB67512	MPDB67513	350	270
1/0-14 (DLO)		3-14 (DLO)						300 (DLO)	
2/0-14	2	2-14	8	MPDB67610	MPDB67611	MPDB67612	MPDB67613	350	270
2/0-14	2	6-14	10	MPDB67530	MPDB67531	MPDB67532	MPDB67533	350	270
2/0-14	2	10-14	15	MPDB67550	MPDB67551	MPDB67552	MPDB67553	350	270
4/0-6	2	4/0-6	2 ^M	MPDB67520	MPDB67521	MPDB67522	MPDB67523	460	360
3/0-6 (DLO)		3/0-6 (DLO)	2					400 (DLO)	
4/0-6	2	2-14	6 ^M	MPDB67540	MPDB67541	MPDB67542	MPDB67543	460	360
3/0-6 (DLO)		4-14 (DLO)	6					400 (DLO)	

* Indicates part numbers that are not UL listed

(DLO) Indicates Ampere Rating or Wire Range applicable to Copper DLO class wire

(M) Indicates connection UL approved for use with multiple conductors in the same opening. Quantities and sizes of wires are as follows:

#2-#14 Openings	(4) #14	(4) #12	(2) #10					
4/0-#6 Openings	(2) #2	(2) #3	(2) #4	(2) #6				
200-#4 Openings	(2) #4	(2) #3	(2) #2	(2) #1	(2) 1/0	(2) #2/0	(2) 3/0	

CATALOG NUMBERS, INTERMEDIATE ALUMINUM MPDBs,
BOX-STUD CONFIGURATION

Line Side		Load Side		Catalog Numbers				Amp Rating per Pole	
Wire Range	Inputs	Stud Size	Outputs	ADDER	1-P	2-P	3-P	Ratings (Cu)	Ratings (Al)
350-6	1	3/8"-16 X 1-1/16"	1	MPDB67250	MPDB67251	MPDB67252	MPDB67253	310	250
500-4	1	3/8"-16 X 1-1/16"	1	MPDB67220	MPDB67221	MPDB67222	MPDB67223	380	310

Hinged Safety Cover for MPDB66 and MPDB67 series: Catalog number MPDBC6667

End Barrier for MPDB66 and MPDB67 series: Catalog Number MPDBE6667

CATALOG NUMBERS, INTERMEDIATE COPPER MPDBs, BOX-BOX CONFIGURATION

Line Side		Load Side		Catalog Numbers				Ampere Rating per Pole	
Wire Range	Openings per Pole	Wire Range	Openings per Pole	ADDER	1-P	2-P	3-P	Cu Wire	
2/0-14	1	2/0-14	1	MPDB66050	MPDB66051	MPDB66052	MPDB66053	175	
2/0-14	1	2-14	4	MPDB66570	MPDB66571	MPDB66572	MPDB66573	175	
2/0-14	1	2-14	6	MPDB66560	MPDB66561	MPDB66562	MPDB66563	175	
2/0-14	1	2-14	8	MPDB66580	MPDB66581	MPDB66582	MPDB66583	175	
2/0-14	1	6-14	10	MPDB66590	MPDB66591	MPDB66592	MPDB66593	175	
2/0-14	1	10-14	12	MPDB66110	MPDB66111	MPDB66112	MPDB66113	175	
350-6	1	350-6	1	MPDB66000	MPDB66001	MPDB66002	MPDB66003	310	
350-6	1	2/0-14	2	MPDB66010	MPDB66011	MPDB66012	MPDB66013	310	
350-6	1	2-14	4	MPDB66670	MPDB66671	MPDB66672	MPDB66673	310	
350-6	1	2-14	6	MPDB66660	MPDB66661	MPDB66662	MPDB66663	310	
350-6	1	2-14	8	MPDB66630	MPDB66631	MPDB66632	MPDB66633	310	
350-6	1	6-14	10	MPDB66650	MPDB66651	MPDB66652	MPDB66653	310	
350-6	1	10-14	15	MPDB66620	MPDB66621	MPDB66622	MPDB66623	310	
500-4	1	500-4	1	MPDB66400	MPDB66401	MPDB66402	MPDB66403	380	
500-4	1	350-6 & 2-14	1 & 3	MPDB66450	MPDB66451	MPDB66452	MPDB66453	380	
500-4	1	2/0-14	4	MPDB66410	MPDB66411	MPDB66412	MPDB66413	380	
500-4	1	2-14	6	MPDB66460	MPDB66461	MPDB66462	MPDB66463	380	
500-4	1	10-14	18	MPDB66490	MPDB66491	MPDB66492	MPDB66493	380	
2/0-14	2	2/0-14	2	MPDB66020	MPDB66021	MPDB66022	MPDB66023	350	
2/0-14	2	2-14	6	MPDB66510	MPDB66511	MPDB66512	MPDB66513	350	
2/0-14	2	2-14	8	MPDB66610	MPDB66611	MPDB66612	MPDB66613	350	
2/0-14	2	6-14	10	MPDB66530	MPDB66531	MPDB66532	MPDB66533	350	
2/0-14	2	10-14	15	MPDB66550	MPDB66551	MPDB66552	MPDB66553	350	
4/0-6	2	4/0-10	2	MPDB66520	MPDB66521	MPDB66522	MPDB66523	460	
4/0-6	2	2-14	6	MPDB66540	MPDB66541	MPDB66542	MPDB66543	460	

(DLO) Indicates Ampere Rating or Wire Range applicable to DLO class wire

CATALOG NUMBERS, INTERMEDIATE COPPER MPDBs, STUD-STUD CONFIGURATION

Line Side		Load Side		Catalog Numbers				Ampere Rating per Pole	
Stud Range	Studs per Pole	Stud Size	Studs per Pole	ADDER	1-P	2-P	3-P	Ratings (Cu)	Ratings (Al)
1/4"-20 X 1-5/16"	1	1/4"-20 X 1-5/16"	1	MPDB66270	MPDB66271	MPDB66272	MPDB66273	155	155
1/4"-20 X 1-5/16"	1	3/8"-16 X 1-1/8"	1	MPDB66200	MPDB66201	MPDB66202	MPDB66203	155	155
3/8"-16 X 1-1/8"	1	1/4"-20 X 1-5/16"	2	MPDB66230	MPDB66231	MPDB66232	MPDB66233	400	400
3/8"-16 X 1-1/8"	1	3/8"-16 X 1-1/8"	1	MPDB66260	MPDB66261	MPDB66262	MPDB66263	400	400

Hinged Safety Cover for MPDB66 and MPDB67 series: Catalog number MPDBC6667
End Barrier for MPDB66 and MPDB67 series: Catalog Number MPDBE6667