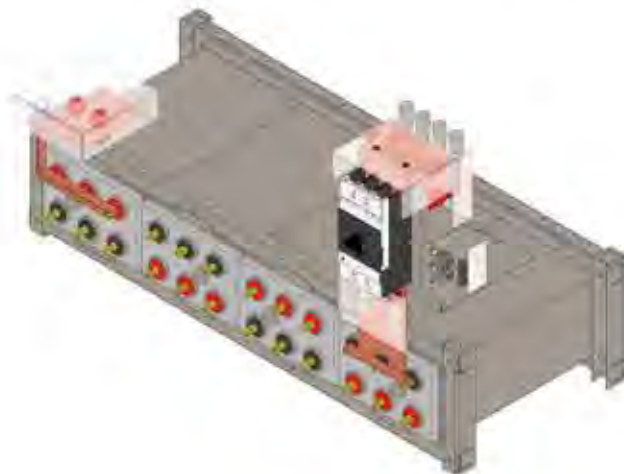
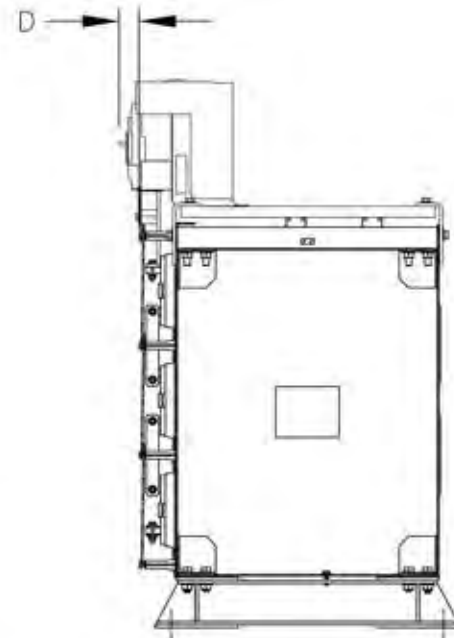
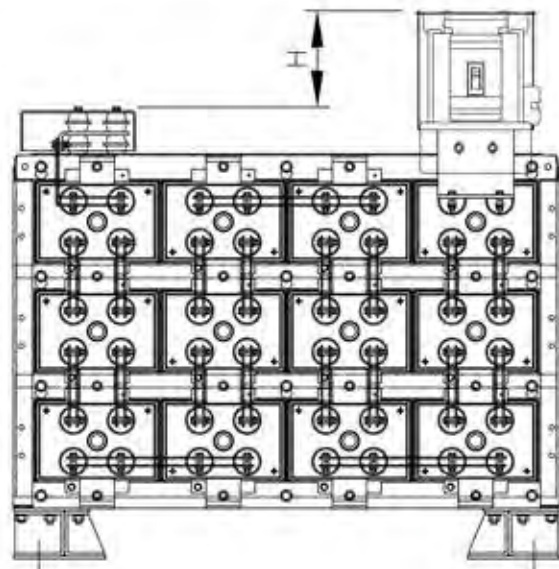


PowerSafe DDm/DDmP Disconnect/Breakers

Frame Size	Mounting Orientation		Height (in)	Depth (in)
200A-750A	Vertical	No Shunt	8.81"	1.63"
		Shunt	10.81"	1.63"
	Horizontal	No Shunt	6.31"	2.13"
		Shunt	6.31"	2.13"
1200A-1800A	Vertical	No Shunt	15.31"	2.63"
		Shunt	17.31"	2.63"
	Horizontal	No Shunt	8.81"	2.63"
		Shunt	8.81"	2.63"



PowerSafe® DDm/DDmP and Flooded Batteries

D.C. Powerplant Disconnect/Breaker

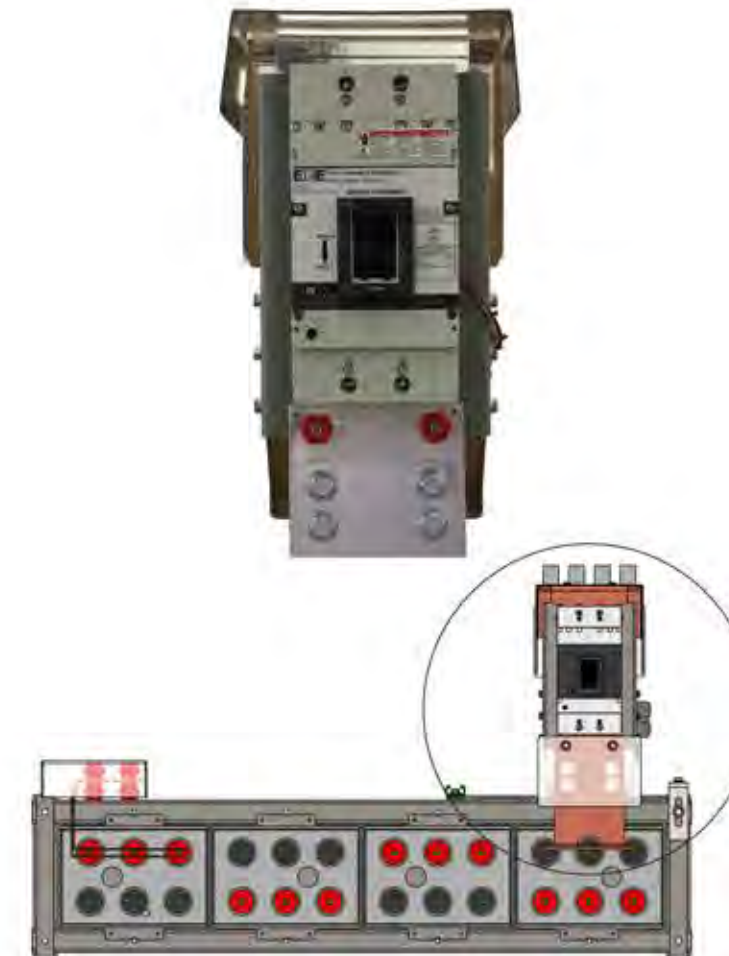
PowerSafe DDm/DDmP Disconnect/Breaker

The EnerSys® PowerSafe® Battery Disconnect/Breaker System is an ideal solution for telecommunications offices that require a safe single and convenient means to quickly isolate a battery string of Flooded (Vented Lead Acid) or Valve Regulated Lead Acid (VRLA) batteries from DC power or from other battery strings. The disconnect/breaker systems have been designed so they can be directly "bolt on" to PowerSafe DDm and DDmP battery systems allowing for simple installation eliminating the need for cumbersome, lengthy cabling. Flooded batteries would use remote mounting. Options include overcurrent protection, various size shunts, multiple ways to mount disconnect/breaker to walls, ladders and/or 23 inch relay racks.

The battery disconnects/breakers allow for safer routine maintenance to be performed without having to manually disconnect the battery from the main bus or cabling, thus reducing overall maintenance time. In addition, these battery disconnects/breakers can be configured to comply with local fire codes that require an at the door remote "power off" for the battery system, in the event of an emergency.

Features and Benefits

- Available in 24Vdc, 48Vdc, 125Vdc and 240Vdc size systems
- Frame sizes from 200 to 2400 Amps
- Optional overload (overcurrent) trip protection available from 100 to 2400 Amps
- Can be mounted to top of PowerSafe DDm/DDmP battery vertically or horizontally
- Remote operation available
- Shunts are available with 50mv or 100mv accuracy ranging from 100 to 3000 Amps
- Load Side - tin-plated copper connector can accommodate up to four two hole lug cables
- Line Side - custom tin-plated copper connector connecting directly to the post or terminal plate



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RESERVE
POWER

Publication No. US-DDm/DDmP-PD-AA - April 2016

Part number example; **B 4 48 20 11 U33 4 2K**

PowerSafe DDm/DDmP Disconnect/Breakers

Defined as; 1200A frame, 48Vdc, 1200A Overcurrent trip, Manual open/close operation, Top Mount to battery, for a DDmP125-33 UBC Rack, Cell with Square Post, 4 Wide rack width, 1200A/50mV shunt.

Part number	B	4	48
	Disconnect 1	Disconnect 2	Disconnect 3 & 4
Disconnect/Breaker System	Disconnect/Breaker Frame Size		Breaker Voltage
	1: 200 Amp Frame		24: 24 Volt Battery
	2: 400 Amp Frame (for OC protection greater than 200A, up to 400A)		48: 48 Volt Battery
	3: 600 Amp Frame (for OC protection greater than 400A, up to 600A)		A1: 125 Volt Battery
	7: 750 Amp Frame (for OC protection greater than 600A, up to 750A)		A2: 240 Volt Battery
	4: 1200 Amp Frame (for OC protection greater than 750A, up to 1200A)		
	5: 1800 Amp Frame (for OC protection greater than 1200A, up to 1800A)		
6: 2400 Amp Frame (for OC protection greater than 1800A, up to 2400A)			

20			1								1																																												
Disconnects 5-6			Disconnect 7								Disconnect 8																																												
Overcurrent Protection in Amps			Disconnect Operations								Mounting Option																																												
00: No Overcurrent Trip			1. Manual Operation								1. Vertical, DDm/DDmP, Top**																																												
01: 100A			2. Remote Open / Manual Close Ready (shunt trip coil w/no pushbutton station)								2. Horizontal Right, DDm/DDmP, Top**																																												
02: 125A			3. Remote Open / Manual Close (shunt trip coil w/ pushbutton station)*								7. Horizontal Left, DDm/DDmP, Top**																																												
03: 150A			4. Keyed Remote Open / Manual Close (shunt trip and shielded Emergency Power)*								3. Wall mounted NEMA 1 Enclosure																																												
04: 175A			5. Shielded Remote Open / Manual Close (shunt trip and shielded EPO)*								4. Wall mounted w/Unistrut																																												
05: 200A			6. Remote Open / Remote Close (motor operated with 2 position selector, 1 string only)**								5. 23" Relay Rack mounted+																																												
06: 250A			Remote Disconnect/Breaker can control more than one battery string								6. Ladder Rack mounted+																																												
07: 300A																																																							
08: 350A			<table border="1"> <thead> <tr> <th rowspan="2">1 String Standard</th> <th colspan="8">Total battery string contacts on the same disconnect/breaker</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>3</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> </tr> <tr> <td>4</td> <td>4</td> <td>H</td> <td>J</td> <td>K</td> <td>L</td> <td>M</td> <td>N</td> <td>P</td> </tr> <tr> <td>5</td> <td>5</td> <td>R</td> <td>S</td> <td>T</td> <td>U</td> <td>V</td> <td>W</td> <td>X</td> </tr> </tbody> </table>								1 String Standard	Total battery string contacts on the same disconnect/breaker								1	2	3	4	5	6	7	8	3	3	A	B	C	D	E	F	G	4	4	H	J	K	L	M	N	P	5	5	R	S	T	U	V	W	X	
1 String Standard	Total battery string contacts on the same disconnect/breaker																																																						
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4	4	H	J	K	L	M	N	P																																															
5	5	R	S	T	U	V	W	X																																															
09: 375A			Notes:																																																				
10: 400A			* If additional battery strings are to be controlled by the same breaker, see the above chart.																																																				
11: 450A			** Remote operation only available on 1200A & 1800A Breaker Frame Sizes.																																																				
12: 500A																																																							
13: 525A																																																							
14: 600A																																																							

U33										4		2K	
Characters 9-11										Character 12		Characters 13-14	
Battery and Rack Types										Rack Width		Measuring Shunt	
ZZZ: Remote mounting for flooded or "other" type cell models	F13: 2m85-13	NEBS Rack	(Cell with round post)	L25: mP100-25	NEBS Rack	(Cell with square post)	Z: Not on a DDm/DDmP Battery	1: None	3A: 100A, 100mV				
A07: 2DDm35-07 UBC Rack (Cell with round post)	F15: 2m85-15	NEBS Rack	(Cell with round post)	L27: mP100-27	NEBS Rack	(Cell with square post)	Battery	2A: 100A, 50mV	3B: 200A, 100mV				
A09: 2DDm50-09 UBC Rack (Cell with round post)	F21: m85-21	NEBS Rack	(Cell with round post)	L33: mP100-33	NEBS Rack	(Cell with square post)	2: 2-wide*	2B: 200A, 50mV	3C: 300A, 100mV				
A13: 2DDm50-13 UBC Rack (Cell with round post)	F25: m85-25	NEBS Rack	(Cell with round post)	M25: mP125-25	NEBS Rack	(Cell with square post)	3: 3-wide**	2C: 300A, 50mV	3D: 400A, 100mV				
A17: DDm50-17 UBC Rack (Cell with round post)	F27: m85-27	NEBS Rack	(Cell with round post)	M27: mP125-27	NEBS Rack	(Cell with square post)	4: 4-wide	2D: 400A, 50mV	3E: 500A, 100mV				
B13: 2DDm85-13 UBC Rack (Cell with round post)	F33: m85-33	NEBS Rack	(Cell with round post)	M33: mP125-33	NEBS Rack	(Cell with square post)	6: 6-wide	2E: 500A, 50mV	3F: 600A, 100mV				
B15: 2DDm85-15 UBC Rack (Cell with round post)	G21: m100-21	NEBS Rack	(Cell with round post)	R09: 2DDmP50-09	UBC Rack	(Cell with square post)	*Note: Top-of-rack breakers may not fit a 2-wide system. Contact an EnerSys* representative for additional information if ordering a breaker for a 2-wide system	2F: 600A, 50mV	3G: 750A, 100mV				
B21: DDm85-21 UBC Rack (Cell with round post)	G25: m100-25	NEBS Rack	(Cell with round post)	R13: 2DDmP50-13	UBC Rack	(Cell with square post)	**Note: Not available for Cell Models beginning with a '2'.	2G: 750A, 50mV	3H: 800A, 100mV				
B25: DDm85-25 UBC Rack (Cell with round post)	G27: m100-27	NEBS Rack	(Cell with round post)	R17: DDmP50-17	UBC Rack	(Cell with square post)		2H: 800A, 50mV	3J: 1000A, 100mV				
B27: DDm85-27 UBC Rack (Cell with round post)	G33: m100-33	NEBS Rack	(Cell with round post)	S13: 2DDmP85-13	UBC Rack	(Cell with square post)		2J: 1000A, 50mV	3K: 1200A, 100mV				
B33: DDm85-33 UBC Rack (Cell with round post)	H25: m125-25	NEBS Rack	(Cell with round post)	S15: 2DDmP85-15	UBC Rack	(Cell with square post)		2K: 1200A, 50mV	3L: 1500A, 100mV				
C21: DDm100-21 UBC Rack (Cell with round post)	H27: m125-27	NEBS Rack	(Cell with round post)	S21: DDmP85-21	UBC Rack	(Cell with square post)		2L: 1500A, 50mV	3M: 2000A, 100mV				
C25: DDm100-25 UBC Rack (Cell with round post)	H33: m125-33	NEBS Rack	(Cell with round post)	S25: DDmP85-25	UBC Rack	(Cell with square post)		2M: 2000A, 50mV	3N: 2500A, 100mV				
C27: DDm100-27 UBC Rack (Cell with round post)	J09: 2mP50-09	NEBS Rack	(Cell with square post)	S27: DDmP85-27	UBC Rack	(Cell with square post)		2N: 2500A, 50mV	3P: 3000A, 100mV				
C33: DDm100-33 UBC Rack (Cell with round post)	J13: 2mP50-13	NEBS Rack	(Cell with square post)	S33: DDmP85-33	UBC Rack	(Cell with square post)		2P: 3000A, 50mV					
D25: DDm125-25 UBC Rack (Cell with round post)	J17: mP50-17	NEBS Rack	(Cell with square post)	T21: DDmP100-21	UBC Rack	(Cell with square post)							
D27: DDm125-27 UBC Rack (Cell with round post)	K13: 2mP85-13	NEBS Rack	(Cell with square post)	T25: DDmP100-25	UBC Rack	(Cell with square post)							
D33: DDm125-33 UBC Rack (Cell with round post)	K15: 2mP85-15	NEBS Rack	(Cell with square post)	T27: DDmP100-27	UBC Rack	(Cell with square post)							
E09: 2m50-09 NEBS Rack (Cell with round post)	K21: mP85-21	NEBS Rack	(Cell with square post)	T33: DDmP100-33	UBC Rack	(Cell with square post)							
E13: 2m50-13 NEBS Rack (Cell with round post)	K25: mP85-25	NEBS Rack	(Cell with square post)	U25: DDmP125-25	UBC Rack	(Cell with square post)							
E17: m50-17 NEBS Rack (Cell with round post)	K27: mP85-27	NEBS Rack	(Cell with square post)	U27: DDmP125-27	UBC Rack	(Cell with square post)							
	K33: mP85-33	NEBS Rack	(Cell with square post)	U33: DDmP125-33	UBC Rack	(Cell with square post)							
	L21: mP100-21	NEBS Rack	(Cell with square post)										

Note: Mounting a disconnect directly onto a DDm/DDmP battery will eliminate the stand's seismic rating