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DEDICATED DRIVE

 | A CG Product

TECHNICAL CATALOGUE MEDIUM VOLTAGE DRIVES



Emotron MVD 10
170 KW- 30 MW
3,3 KV - 11 KV

Your Needs The Right Voltage One Trusted Partner

Whether your application calls for high, medium or low voltage, we deliver the right drive technology for the job – expertly dimensioned, highly reliable, and ready to perform. Our portfolio includes a full range of medium voltage drives backed by deep application expertise, robust engineering, and flexible cooling options (air or water).

MVD 10			
Power range	3.3-11kV	3.3-11kV	3.3-11kV
Voltage range	3.3kV@170-1180kW 4.16kV@210-1490kW 6kV@250-2000kW 6.6kV@330-2250kW 10kV@315-3550kW 11kV@540-3700kW	3.3kV@1250-3750kW 4.16kV@1600-4730kW 6kV@250-7100kW 6.6kV@2500-6300kW 10kV@315-11200kW 11kV@4000-11200kW	3.3kV@3100-9140kW 4.16kV@3920-11520kW 6kV@5000-17500kW 6.6kV@6210-18290kW 10kV@9400-29000kW 11kV@10360-30480kW
Frame Service Type	Single-side cabinet	Doubles-side cabinet	
Cooling Type	Air Cooling		Water Cooling
Input Frequency	50Hz standard		
Input Power factor	> 0.96		
Output Frequency	0-120Hz		
Efficiency	≥ 98.5% inverter section		
Topology	Multi-Levels (Cell-cascaded multilevel PWM)		
Overload Capability	120% @1 minutes, 150% @ Instantaneous trip		
Control mode	V/F Standard		
Communication	Interface: RS485, Communication protocol: ModBus RTU		
Coated boards	Comply with Resistant to humidity, salt spray and mold		
Human Machine Interface (HMI) language standard	Chinese, English, Russian, German, Ukrainian		
Human Machine Interface(HMI) language options	Turkey, Spain, French		
DI	24 channels		
DO	16 channels (8 channels can be defined)		
AI	4 Channels are defined by VFD, 1: Power cell cabinet temperature, 2: Excitation feedback (feedback current value of excitation cabinet during excitation control), 3: Analog given (used during closed-loop control), 4: Analog feedback (used during closed-loop control).		
AO	2 Channels are defined by VFD, 1: Output frequency, 2: Output current, 3: Customized settings for the two channels.		
IP class	IP41		
Cabinet color	RAL7042 Control cabinet, RAL7035 Power Cell Cabinet and transformer Cabinet		
Cable Entry/Exit	Bottom/Bottom		
Humidity	< 95%, non-condensing		
Altitude	≤1000m		
Environment temperature	-5°C to +40 °C		
Storage/transportation temperature	-25°C~+55°C Temperature change rate <1°C/min		
Options	Cell bypass, 8 ways PT100 interfaces, encoder		
Input Frequency options	60Hz		
Control mode options	Open Loop Vector Control (not apply for electrical excitation motor); Closed Loop Vector Control		
Communication options	Modbus TCP, Profibus DP, Industrial Ethernet, Devicenet.		
CE certification	Standard	Not Available	



Emotron MVD 10 - Compact cooled solution

Discover our Medium Voltage Drive portfolio – designed for robust performance, maximum uptime, and seamless integration into your critical operations. When needed, we can also provide a complete drive and motor system – tailored to your exact requirements – from one trusted source. The result: optimized system performance, simplified interfaces, and peace of mind from design to operation.

MAIN FEATURES

- Input power factor: 0.96 or better.
- Harmonics reflected on grid very low (< 5% of total current at full load).
- High efficiency: The overall efficiency of high-voltage inverters with power >3150kVA is >96%, and the overall efficiency of high-voltage inverters with power ≤3150kVA is around 95%, including input transformer.
- Harmonics reflected on motor very low, <5%.
- Voltage-source inverter technology with PWM control.
- Built in dry-type transformer.
- Easy to communicate with VFD using RS485 /ModBus RTU (standard) or Profibus DP (option), Industrial Ethernet (option), Devicenet (option).
- Start under motor running / flying start
- The VFD will tolerate grid/ grid power loss for up to 1000 ms.
- Cell-bypass function (option).
- Motor types: Asynchronous motor, synchronous motor, permanent magnet motor.

Air-Cooled VFD Solution

Emotron MVD 10 Double Side Operation

3.3kV*

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MD4.1	1250	1600	MVD10-033/01600	5190	
	1400	1800	MVD10-033/01800	5448	
	1600	2000	MVD10-033/02000	5748	
	1800	2250	MVD10-033/02250	6070	
MD5.1	2000	2500	MVD10-033/02500	7104	
	2200	2750	MVD10-033/02750	7416	
	2500	3125	MVD10-033/03125	8678	
MD6.1	2800	3500	MVD10-033/03500	9340	
	3110	3890	MVD10-033/03890	10007	
	3750	4690	MVD10-033/04690	11343	

4.16kV*

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MJ1.1	1600	2000	MVD10-416/02000	6255	
	1800	2250	MVD10-416/02250	6475	
	2000	2500	MVD10-416/02500	6640	
	2250	2800	MVD10-416/02800	7858	
MJ2.1	2500	3200	MVD10-416/03200	8985	
	2800	3450	MVD10-416/03450	9285	
	3150	3950	MVD10-416/03950	10245	
MJ3.1	3500	4300	MVD10-416/04300	11052	
	3920	4900	MVD10-416/04900	12012	
	4730	5910	MVD10-416/05910	13983	

*Note: Under development, can be inquiry, estimated size

Emotron MVD 10 Double Side Operation

6kV (5cells for each phase)*

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MA1.1	250	315	MVD10-060/00315	1969	
	315	400	MVD10-060/00400	2094	
	400	500	MVD10-060/00500	2154	
	450	560	MVD10-060/00560	2269	
	500	630	MVD10-060/00630	2349	
	560	700	MVD10-060/00700	2424	
	630	800	MVD10-060/00800	2464	
MA2.1	710	900	MVD10-060/00900	3550	
	800	1000	MVD10-060/01000	3678	
	900	1150	MVD10-060/01150	3758	
	1000	1250	MVD10-060/01250	3880	
	1120	1400	MVD10-060/01400	4084	
	1250	1600	MVD10-060/01600	4396	
MA3.1	1400	1800	MVD10-060/01800	5595	
	1600	2000	MVD10-060/02000	5755	
	1800	2250	MVD10-060/02250	5975	
	2000	2500	MVD10-060/02500	6140	
MA4.1	2250	2800	MVD10-060/02800	8358	
	2500	3200	MVD10-060/03200	8958	
	2800	3500	MVD10-060/03500	9858	
	3150	4000	MVD10-060/04000	10758	
MA5.1	3550	4500	MVD10-060/04500	10985	
	4000	5000	MVD10-060/05000	11285	
	4500	5600	MVD10-060/05600	12245	
MA6.1*	5000	6300	MVD10-060/06300	13200	
	5600	7000	MVD10-060/07000	14900	
	6300	7500	MVD10-060/07500	15200	
	7100	8500	MVD10-060/08500	15800	

*For standard loads, simply select units according to the standard 5-level classification

Air-Cooled VFD Solution

Emotron MVD 10 Double Side Operation

6kV (6cells for each phase)*

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MC4.1	2250	2800	MVD10-060/02800	8658	
	2500	3200	MVD10-060/03200	9258	
	2800	3500	MVD10-060/03500	10358	
	3150	4000	MVD10-060/04000	11058	
MC5.1	3550	4500	MVD10-060/04500	11835	
	4000	5000	MVD10-060/05000	12135	
	4500	5600	MVD10-060/05600	13095	
MC6.1	5000	6300	MVD10-060/06300	14025	
	5600	7000	MVD10-060/07000	15725	
	6300	7500	MVD10-060/07500	16025	

*Note:Under development, can be inquiry, estimated size
Level 6 units should be selected in the following scenarios:
- Applications requiring high system reliability;
- Applications requiring full-rated output even after bypassing a single failed unit;
- Synchronous switching with significant grid fluctuations;
- Synchronous generator switching;
- Derated operation required in high-altitude environments;
- Special loads such as high-temperature fans and compressors.

6.6kV*

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MC4.1	2500	3200	MVD10-066/03200	8658	
	2800	3500	MVD10-066/03500	9258	
	3150	4000	MVD10-066/04000	10358	
MC5.1	3550	4500	MVD10-066/04500	11835	
	4000	5000	MVD10-066/05000	12135	
	4500	5600	MVD10-066/05600	13095	
MC6.1	5000	6300	MVD10-066/06300	15825	
	5600	7000	MVD10-066/07000	17079	
	6300	7500	MVD10-066/07500	19419	

*Note:Under development, can be inquiry, estimated size

Emotron MVD 10 Double Side Operation

10kV (8cells for each phase)

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
ML1.1	315	400	MVD10-100/00400	2316	
	355	450	MVD10-100/00450	2346	
	400	500	MVD10-100/00500	2383	
	450	560	MVD10-100/00560	2433	
	500	630	MVD10-100/00630	2483	
	560	700	MVD10-100/00700	2593	
	630	800	MVD10-100/00800	2719	
	710	900	MVD10-100/00900	2875	
	800	1000	MVD10-100/01000	3062	
	900	1150	MVD10-100/01150	3192	
	1000	1250	MVD10-100/01250	3258	
	1120	1400	MVD10-100/01400	3409	
ML2.1	1250	1600	MVD10-100/01600	4390	
	1400	1800	MVD10-100/01800	4648	
	1600	2000	MVD10-100/02000	4948	
	1800	2250	MVD10-100/02250	5270	
	2000	2500	MVD10-100/02500	5604	
ML3.1	2250	2800	MVD10-100/02800	5916	
	2500	3150	MVD10-100/03150	7678	
	2800	3500	MVD10-100/03500	8188	
	3150	4000	MVD10-100/04000	8958	
ML4.1	3550	4500	MVD10-100/04500	9308	
	4000	5000	MVD10-100/05000	11358	
	4500	5650	MVD10-100/05650	11958	
	5000	6300	MVD10-100/06300	12858	
ML5.1	5600	7000	MVD10-100/07000	13758	
	6300	7500	MVD10-100/07500	15277	
	7100	8500	MVD10-100/08500	16017	
ML6.1	8000	9500	MVD10-100/09500	16257	
	9000	10700	MVD10-100/10700	19700	
	10000	11800	MVD10-100/11800	20400	
	11200	13300	MVD10-100/13300	22000	
ML6.1	11900	14200	MVD10-100/14200	22900	

Air-Cooled VFD Solution

Emotron MVD 10 Double Side Operation

10kV (9cells for each phase) *

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MB4.1	4000	5000	MVD10-100/05000	11858	
	4500	5650	MVD10-100/05650	12458	
	5000	6300	MVD10-100/06300	13358	
MB5.1	6300	7500	MVD10-100/07500	16127	
	7100	8500	MVD10-100/08500	16867	
	8000	9500	MVD10-100/09500	17107	
MB6.1	9000	10700	MVD10-100/10700	20475	
	10000	11800	MVD10-100/11800	21795	
	11200	13300	MVD10-100/13300	22000	

11kV (9cells for each phase) *

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MB4.1	4000	5000	MVD10-110/05000	11858	
	4500	5650	MVD10-110/05650	12458	
	5000	6300	MVD10-110/06300	13358	
MB5.1	6300	7500	MVD10-110/07500	16127	
	7100	8500	MVD10-110/08500	16867	
	8000	9500	MVD10-110/09500	17107	
MB6.1	9000	10700	MVD10-110/10700	21795	
	10000	11800	MVD10-110/11800	23235	
	11200	13300	MVD10-110/13300	26355	

*Note: Under development, can be inquiry, estimated size

Emotron MVD 10 Front Side Operation

3.3kV

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MD1.1S	170	210	MVD10-033/00210-A3S1/035*A	2236	
	210	260	MVD10-033/00260-A3S1/045*A	2286	
	250	310	MVD10-033/00310-A3S1/054*A	2386	
	290	360	MVD10-033/00360-A3S1/062*A	2456	
	330	420	MVD10-033/00420-A3S1/072*A	2486	
	380	470	MVD10-033/00470-A3S1/081*A	2556	
MD2.1S	420	530	MVD10-033/00530-A3S1/091*A	3114	
	490	620	MVD10-033/00620-A3S1/107*A	3186	
	540	670	MVD10-033/00670-A3S1/116*A	3228	
	620	780	MVD10-033/00780-A3S1/135*A	3439	
	700	880	MVD10-033/00880-A3S1/153*A	3472	
	750	940	MVD10-033/00940-A3S1/163*A	3543	
MD3.1S	830	1030	MVD10-033/01030-A3S1/180*A	3510	
	930	1160	MVD10-033/01160-A3S1/202*A	3660	
	1060	1320	MVD10-033/01320-A3S1/230*A	3930	
	1180	1480	MVD10-033/01480-A3S1/258*A	3980	

4.16kV

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MJ1.1S	210	260	MVD10-416/00260	2331	
	260	330	MVD10-416/00330	2411	
	320	390	MVD10-416/00390	2511	
	360	450	MVD10-416/00450	2581	
	420	520	MVD10-416/00520	2611	
	470	590	MVD10-416/00590	2661	
MJ2.1S	530	660	MVD10-416/00660	2952	
	620	780	MVD10-416/00780	3084	
	670	840	MVD10-416/00840	3187	
	780	980	MVD10-416/00980	3228	
	890	1110	MVD10-416/01110	3392	
	940	1180	MVD10-416/01180	3493	
MJ3.1S	1040	1300	MVD10-416/01300	4082	
	1170	1460	MVD10-416/01460	4282	
	1330	1660	MVD10-416/01660	4432	
	1490	1860	MVD10-416/01860	4632	

Air-Cooled VFD Solution

Emotron MVD 10 Front Side Operation

6kV (5cells for each phase) *

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MA1.1S	250	315	MVD10-060/00315	2667	
	315	400	MVD10-060/00400	2767	
	400	500	MVD10-060/00500	2867	
	450	560	MVD10-060/00560	2917	
	500	630	MVD10-060/00630	3067	
	560	700	MVD10-060/00700	3117	
	630	800	MVD10-060/00800	3217	
MA2.1S	710	900	MVD10-060/00900	3611	
	800	1000	MVD10-060/01000	3713	
	900	1150	MVD10-060/01150	3917	
	1000	1250	MVD10-060/01250	4019	
	1120	1400	MVD10-060/01400	4219	
	1250	1600	MVD10-060/01600	4424	
MA3.1S	1400	1800	MVD10-060/01800	4954	
	1600	2000	MVD10-060/02000	5154	
	1800	2250	MVD10-060/02250	5354	
	2000	2500	MVD10-060/02500	5654	

*For standard loads, simply select units according to the standard 5-level classification

6kV (6cells for each phase) *

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MC1.1S	250	315	MVD10-060/00315	2717	
	315	400	MVD10-060/00400	2817	
	400	500	MVD10-060/00500	2917	
	450	560	MVD10-060/00560	2967	
	500	630	MVD10-060/00630	3117	
	560	700	MVD10-060/00700	3167	
	630	800	MVD10-060/00800	3267	
MC2.1S	710	900	MVD10-060/00900	3691	
	800	1000	MVD10-060/01000	3793	
	900	1150	MVD10-060/01150	3997	
	1000	1250	MVD10-060/01250	4099	
	1120	1400	MVD10-060/01400	4299	
MC3.1S	1250	1600	MVD10-060/01600	4504	
	1400	1800	MVD10-060/01800	5030	
	1600	2000	MVD10-060/02000	5230	
	1800	2250	MVD10-060/02250	5430	
MC3.1S	2000	2500	MVD10-060/02500	5730	

*Level 6 units should be selected in the following scenarios:

- Applications requiring high system reliability;
- Applications requiring full-rated output even after bypassing a single failed unit;
- Synchronous switching with significant grid fluctuations;
- Synchronous generator switching;
- Derated operation required in high-altitude environments;
- Special loads such as high-temperature fans and compressors.

Emotron MVD 10 Front Side Operation

6.6kV

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MC1.1S	330	410	MVD10-066/00410	2792	
	420	520	MVD10-066/00520	2892	
	500	620	MVD10-066/00620	3042	
	570	710	MVD10-066/00710	3142	
	660	830	MVD10-066/00830	3192	
	750	930	MVD10-066/00930	3292	
	MC2.1S	840	1050	MVD10-066/01050	
980		1230	MVD10-066/01230	3861	
1070		1330	MVD10-066/01330	3915	
1240		1550	MVD10-066/01550	4018	
1400		1750	MVD10-066/01750	4224	
1500		1870	MVD10-066/01870	4425	
MC3.1S		1650	2060	MVD10-066/02060	5364
	1850	2310	MVD10-066/02310	5664	
	2110	2630	MVD10-066/02630	6014	
	2250	2800	MVD10-066/02800	6064	

11kV

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))		
MB1.1S	540	670	MVD10-110/00670	3639			
	690	860	MVD10-110/00860	3839			
	830	1030	MVD10-110/01030	4089			
	950	1190	MVD10-110/01190	4239			
	1100	1380	MVD10-110/01380	4539			
	1240	1550	MVD10-110/01550	4689			
	MB2.1S	1390	1740	MVD10-110/01740		5024	
1640		2040	MVD10-110/02040	5274			
1770		2220	MVD10-110/02220	5445			
2060		2580	MVD10-110/02580	5806			
2340		2920	MVD10-110/02920	6198			
MB3.1S		2750	3430	MVD10-110/03430	7866		
		3080	3850	MVD10-110/03850	8266		
	3510	4390	MVD10-110/04390	8916			
	3700	4650	MVD10-110/04650	9166			

Air-Cooled VFD Solution

Emotron MVD 10 Front Side Operation

10kV (8cells for each phase)

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
ML1.1S	315	400	MVD10-100/00400	3413	
	355	450	MVD10-100/00450	3463	
	400	500	MVD10-100/00500	3513	
	450	560	MVD10-100/00560	3563	
	500	630	MVD10-100/00630	3663	
	560	700	MVD10-100/00700	3713	
	630	800	MVD10-100/00800	3813	
	710	900	MVD10-100/00900	3913	
	800	1000	MVD10-100/01000	4013	
	900	1150	MVD10-100/01150	4163	
ML2.1S	1000	1250	MVD10-100/01250	4313	
	1120	1400	MVD10-100/01400	4513	
	1250	1600	MVD10-100/01600	4923	
	1400	1800	MVD10-100/01800	5033	
ML3.1S	1600	2000	MVD10-100/02000	5352	
	1800	2250	MVD10-100/02250	5662	
	2000	2500	MVD10-100/02500	5986	
	2250	2800	MVD10-100/02800	6291	
ML3.1S	2500	3150	MVD10-100/03150	7513	
	2800	3500	MVD10-100/03500	7913	
	3150	4000	MVD10-100/04000	8413	
	3550	4500	MVD10-100/04500	8913	

Emotron MVD 10 Front Side Operation

10kV (9cells for each phase)

Cabinet Type	Power(kW)	Capacity(kVA)	Model	Weight (kg)	Dimensionn (W x D x H (mm))
MB1.1S	315	400	MVD10-100/00400	3463	
	355	450	MVD10-100/00450	3513	
	400	500	MVD10-100/00500	3563	
	450	560	MVD10-100/00560	3613	
	500	630	MVD10-100/00630	3713	
	560	700	MVD10-100/00700	3763	
	630	800	MVD10-100/00800	3863	
	710	900	MVD10-100/00900	3963	
	800	1000	MVD10-100/01000	4063	
	900	1150	MVD10-100/01150	4213	
MB2.1S	1000	1250	MVD10-100/01250	4363	
	1120	1400	MVD10-100/01400	4563	
	1250	1600	MVD10-100/01600	5003	
	1400	1800	MVD10-100/01800	5113	
MB3.1S	1600	2000	MVD10-100/02000	5432	
	1800	2250	MVD10-100/02250	5742	
	2000	2500	MVD10-100/02500	6066	
	2250	2800	MVD10-100/02800	6371	
MB3.1S	2500	3150	MVD10-100/03150	7663	
	2800	3500	MVD10-100/03500	8063	
	3150	4000	MVD10-100/04000	8563	
	3550	4500	MVD10-100/04500	9063	

Water-cooled VFD Solution

Double Side Operation

6kV*

Cabinet Type	Power _(kW)	Capacity _(kVA)	Model	Weight	Dimension
LAW5.1	3600	4500	MVD10 06/425W	15000	9300×1600×2400/2800
	4000	5000	MVD10 06/500W	15500	
	5000	6300	MVD10 06/600W	17050	
LAW6.1	5600	7000	MVD10 06/660W	17400	9500×1600×2400
	6300	7900	MVD10 06/750W	18270	
	6600	8250	MVD10 06/800W	18600	
LAW7.2	8000	10000	MVD10 06/1000W	30250	on request
LAW8.1	10000	12500	MVD10 06/1250W	on request	on request
LAW9.1	12500	16000	MVD10 06/1540W	on request	on request
LAW10.1	14500	18000	MVD10 06/1800W	on request	on request

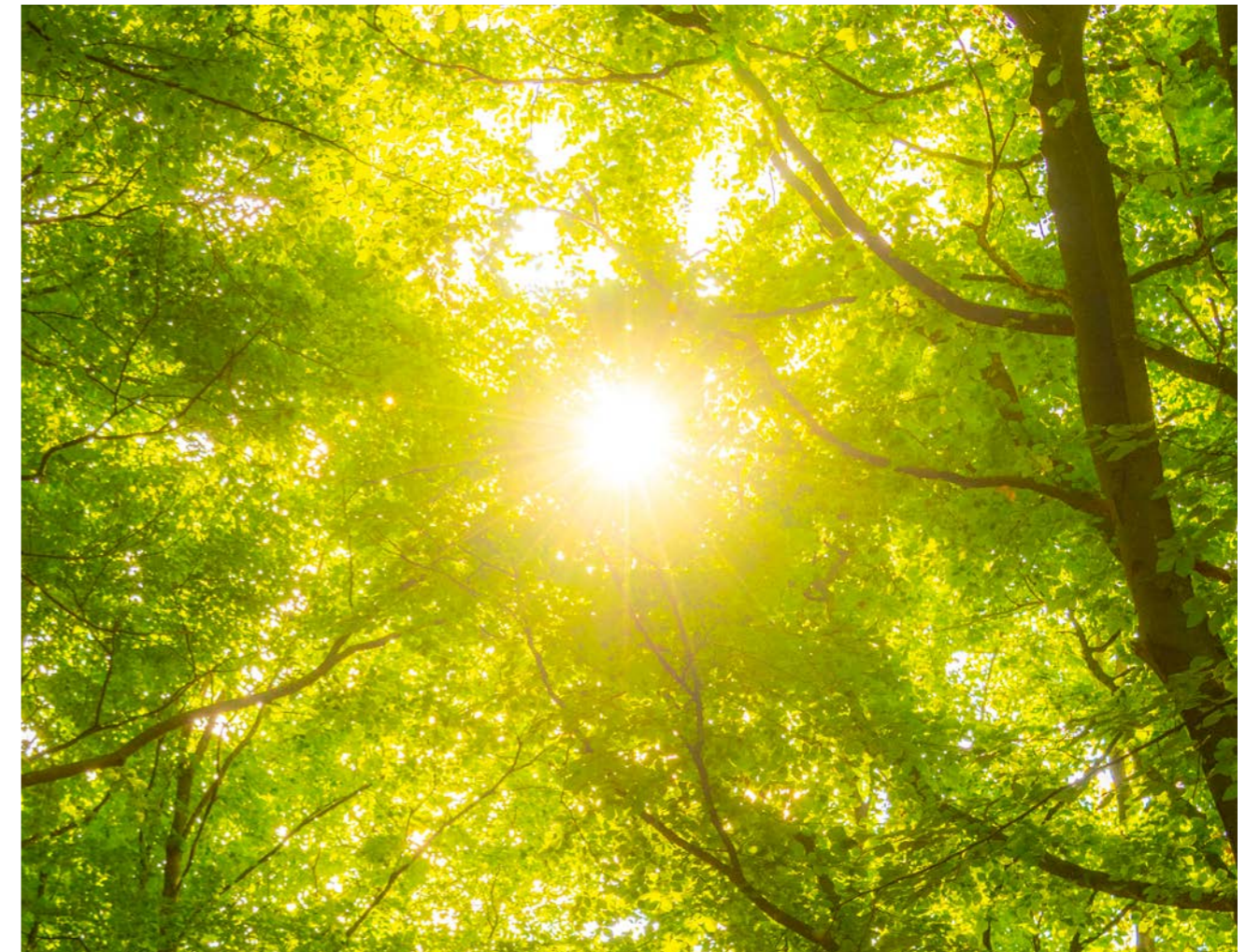
6kV*

Cabinet Type	Power _(kW)	Capacity _(kVA)	Model	Weight	Dimension
LCW5.1	3600	4500	MVD10 06/425W	15240	9700×1600×2400/2800
	4000	5000	MVD10 06/500W	15790	
	5000	6300	MVD10 06/600W	17290	
LCW6.1	5600	7000	MVD10 06/660W	17800	10000×1600×2400
	6300	7900	MVD10 06/750W	18670	
	6600	8250	MVD10 06/800W	19000	
LCW7.2	8000	10000	MVD10 06/1000W	27000	16500×1600×2400
LCW8.1	10000	12500	MVD10 06/1250W	29000	16500×1600×2400
LCW9.2	12500	16000	MVD10 06/1540W	35100	16500×1800×2800/2400
LCW10.1	14500	18000	MVD10 06/1800W	37500	16500×1800×2800/2400

10kV*

Cabinet Type	Power _(kW)	Capacity _(kVA)	Model	Weight	Dimension
LBW5.1	6300	8900	MVD10 10/462W	20010	11350×1600×2400/2800
	7100	9000	MVD10 10/500W	21010	
	8000	10000	MVD10 10/600W	23100	
LBW6.1	10000	12500	MVD10 10/800W	on request	on request
LBW7.1	12500	16000	MVD10 10/1000W	on request	on request
LBW8.1	16000	20000	MVD10 10/1250W	on request	on request
LBW9.1	20000	25000	MVD10 10/1540W	on request	on request
LBW10.1	24000	30000	MVD10 10/1800W		on request
LLW7.2	12500	16000	MVD10 10/1000W	33500	18400×1600*2400
LLW8.1	16000	20000	MVD10 10/1250W	38000	18400×1600*2400
LLW9.2	20000	25000	MVD10 10/1540W	44000	18400×1800*2800/2400
LLW10.1	24000	30000	MVD10 10/1800W	48500	18400×1800*2800/2400

*Note: each project of water-cooled VFD need contact with the manufacturer



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