

FREQUENCY CONVERTERS

LV400



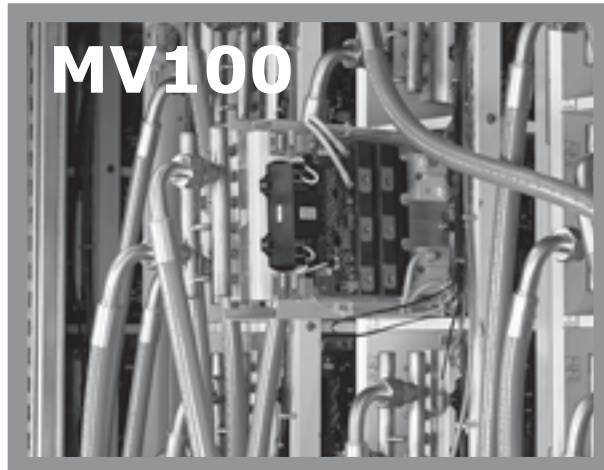
250 kVA - 6,5 MVA
WATER COOLED
LOW VOLTAGE

THE LATEST TECHNOLOGY INTEGRATED IN A ROBUST WATERCOOLED MARITIME FREQUENCY CONVERTER. OUR DRIVES ARE POWERED BY INGTEAM POWER TECHNOLOGY AND ARE A COMBINATION OF PROFOUND KNOWLEDGE AND INNOVATIONS OF POWER ELECTRONICS AND EXPERIENCE IN MARITIME APPLICATIONS. ACTIVE FRONT END, OR UP TO 24 PULSE TECHNOLOGY IN LOW AND MEDIUM VOLTAGE UP TO 36 MVA .

FOR MORE INFORMATION
SEE OVERLEAF

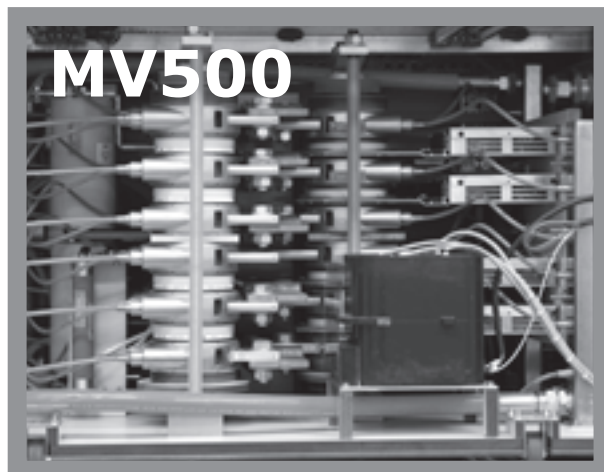


MV100



800 kVA - 15 MVA
AIR/WATER COOLED
MEDIUM VOLTAGE

MV500



6 MVA - 36 MVA
WATER COOLED
MEDIUM VOLTAGE

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FREQUENCY CONVERTERS

	LV 400	MV 100	MV 500
Power Range	250 kVA - 6.5 MVA	800 kVA - 15 MVA	6 MVA - 36 MVA
Input Section	DFE (6 or 12 pulse) or AFE (IGBTs)	DFE (12 or 24 pulse) or AFE (HV-IGBTs)	DFE (12 or 24 pulse) or AFE (press-pack IGCTs)
Output Section	2 level inverter (IGBTs)	NPC 3 level inverter (HV-IGBTs)	NPC 3 level inverter (press-pack IGCTs)
Converter Cooling	Air or Water	Air or Water	Water
Type of Motor	Induction, synchronous or permanent magnet motor	Induction, synchronous or permanent magnet motor	Induction, synchronous or permanent magnet motor
Supply voltage	380 to 480V AC 500 to 690V AC	2x 1850/ 2x 2400V (12P DFE) 4x 925/ 4x 1200V AC (24P DFE) 3150/ 4160V AC (AFE)	2x 1850V AC (12P DFE) 4x 925V AC (24P DFE) 3150V AC (AFE)
Supply voltage tolerance	+/- 10%	+/- 10%	+/- 10%
Output voltage (DFE)	0V AC up to supply voltage	0 to 3150/ 0 to 4160V AC	0 to 3150V AC
Output voltage (AFE)	0V AC up to supply voltage	0 to 3300/ 0 to 4160V AC	0 to 3300V AC
Supply frequency	50/60 Hz (+/- 5%)	50/60 Hz (+/- 5%)	50/60 Hz (+/- 5%)
Output frequency	0 to 120 Hz	0 to 100 Hz/ 0 to 70 Hz	0 to 70 Hz
Cos phi	0.93 to 0.97 (DFE), 1 (AFE)	0.96 (DFE) to 1 (AFE)	0.96 (DFE) to 1 (AFE)
Efficiency at 100% at Rated Load	0.97 to 0.98 (Depending on the topology)	0.97 to 0.98 (Depending on the topology)	0.97 to 0.98 (Depending on the topology)
Main Options	Dynamic braking chopper, different communication modules, dv/dt filter, sinusoidal filter, input/output isolation switch, marine customization and others	Dynamic braking chopper, different communication modules, sinusoidal filter, input/ output isolation switch, marine customization and others	Dynamic braking chopper, different communication modules, sinusoidal filter, input/ output isolation switch, marine customization and others

LV400



MV100



MV500

