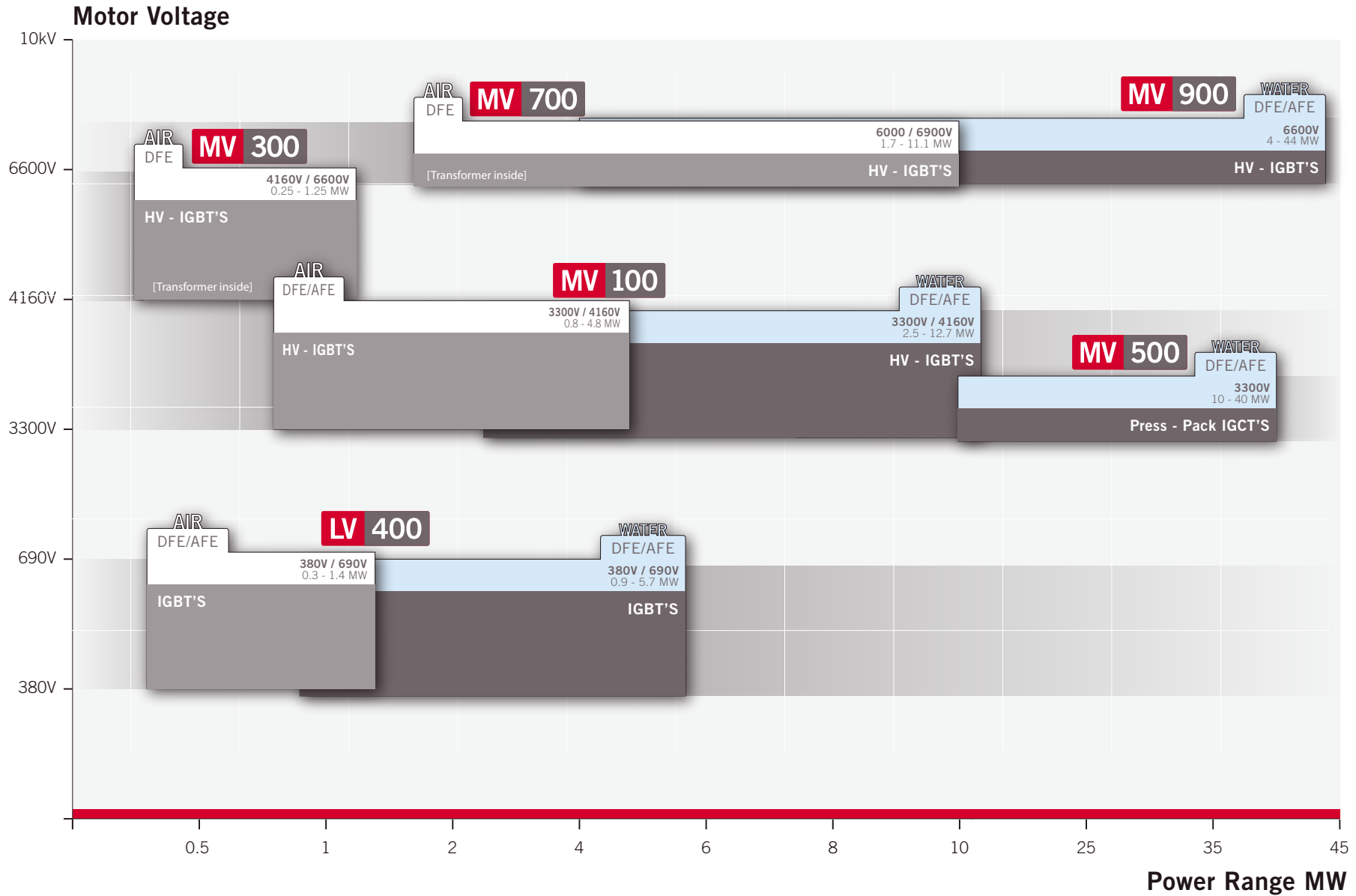


Topologies and Configurations

INGEDRIVE™ can be applied to different sectors and custom made to specific requirements. It can control motors with one or several windings and cater to the needs of redundant, single - motor and multi - motor solutions. Parallel connection of several inverters to the same motor is feasible allowing higher converter output. It is also possible connect several AFE rectifiers in parallel so that more power can be handled.

<ul style="list-style-type: none"> • Single-drive solution: a standard application consisting of one motor with a winding fed through a DFE or AFE converter. 	
<ul style="list-style-type: none"> • Redundant single-drive solution: an application consisting of a motor with two windings fed by two inverters. The rectifier side can be DFE or AFE. 	
<ul style="list-style-type: none"> • Multi-drive solution: Multi - drive application in which several inverters are connected to one single DC bus. While some motors can be braking, others can be motoring, thus transferring energy between themselves through the DC bus (i.e. tension reels on reversing cold mills in the metal industry and test bench applications). 	





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Technical characteristics

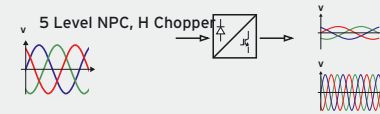
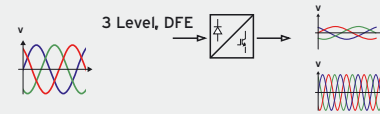
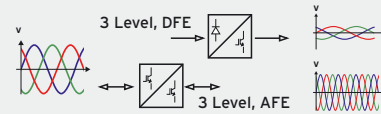
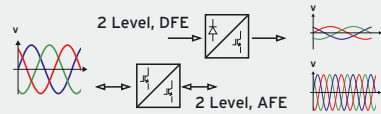
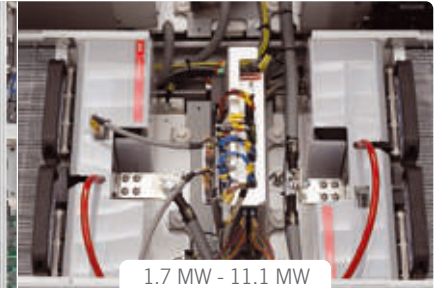
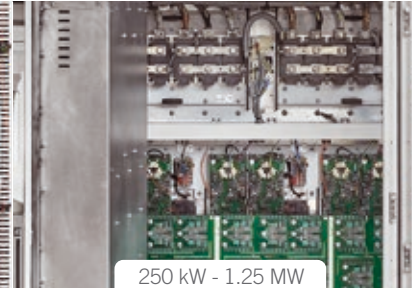
LV 400

MV 100

MV 300

MV 700

Variable speed drives



Power Range	300 kW - 1.4 MW	800 kW - 4.8 MW	250 kW - 1.25 MW	1.7 MW - 11.1 MW
Input Section	DFE (6 or 12 pulse) or AFE (IGBTs)	DFE (12 or 24 pulse) or AFE (HV-IGBTs)	DFE (24 pulse)	DFE (24 pulse)
Output Section	2 level inverter (IGBTs)	NPC 3 level inverter (HV-IGBTs)	NPC 3 level inverter (HV-IGBTs)	5 level inverter (HV-IGBTs) - H chopper
Converter Cooling	Air	Air	Air	Air
Type of Motor	Induction, Synchronous or permanent magnet	Induction, Synchronous or permanent magnet	Induction, Synchronous or permanent magnet	Induction, Synchronous or permanent magnet
Supply Voltage	380 to 480 V AC 500 to 690 V AC	2 x 1850 / 2 x 2350 V AC (12P DFE) 4 x 1850 / 4 x 2350 V AC (24P DFE) 3300 / 4160 V AC (AFE)	0 - 11 kV AC (24P DFE) Transformer Included	0 - 11 kV AC (24P DFE)
Supply Voltage Tolerance	± 10%	± 10%	± 10%	± 10%
Output Voltage	0 V AC up to supply voltage	0 to 3150 / 0 to 4160 V AC	0 to 4160 V AC* / 0 to 6600 V AC	0 to 6600 V AC
Supply Frequency	50/60 Hz (±5%)	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	0 to 100 Hz
Cos Phi	0.93 to 0.97 (DFE), 1 (AFE)	0.93 to 0.97 (DFE), 1 (AFE)	0.93 to 0.97 (DFE)	0.93 to 0.97 (DFE)
Efficiency at 100% at Rated Load	0.97 to 0.98 (Depending on the topology)	0.97 to 0.98 (Depending on the topology)	0.96 to 0.97 (Depending on the topology)	0.96 to 0.97 (Depending on the topology)
Main Options	Dynamic braking chopper, different communication modules, dv/dt filter, sinusoidal filter, input/output isolation switch, marine customization and other.	Dynamic braking chopper, different communication modules, dv/dt filter, sinusoidal filter, input/output isolation switch, marine customization and other.	Dynamic braking chopper, different communication modules, dv/dt filter, sinusoidal filter, input/output isolation switch, marine customization and other.	Dynamic braking chopper, different communication modules, dv/dt filter, sinusoidal filter, input/output isolation switch, marine customization and other.



available for 4160 V AC

Technical characteristics

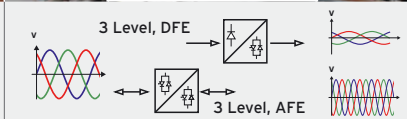
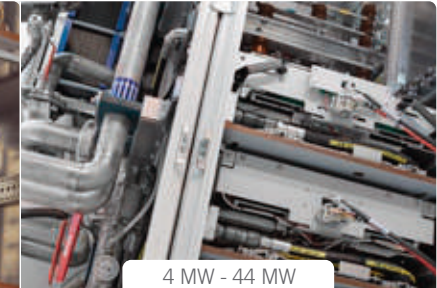
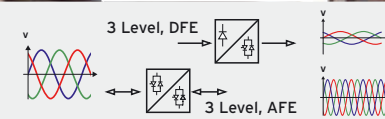
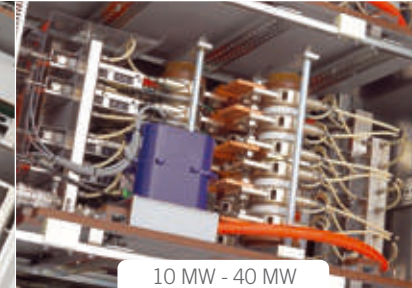
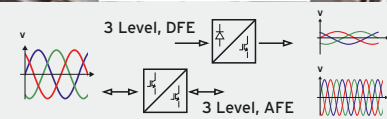
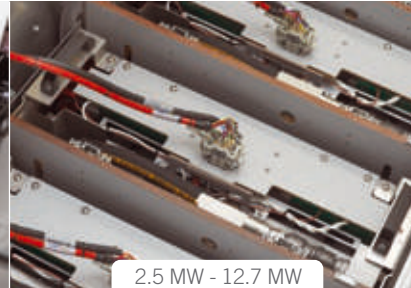
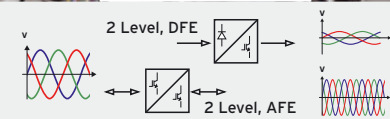
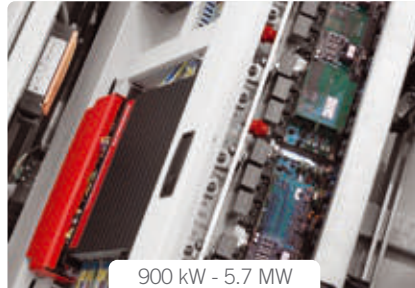
LV 400

MV 100

MV 500

MV 900

Variable speed drives



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