



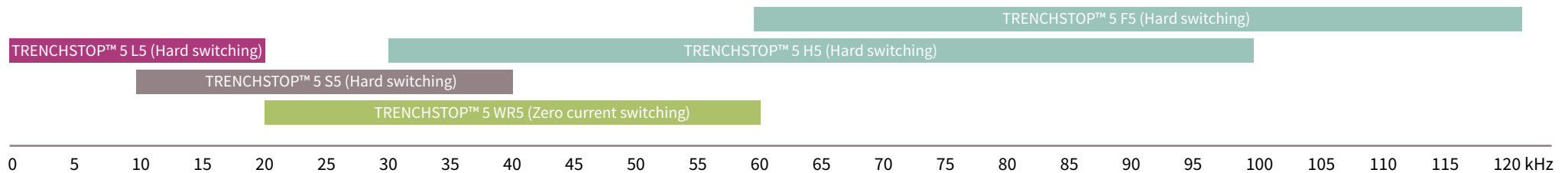


Selection Guide

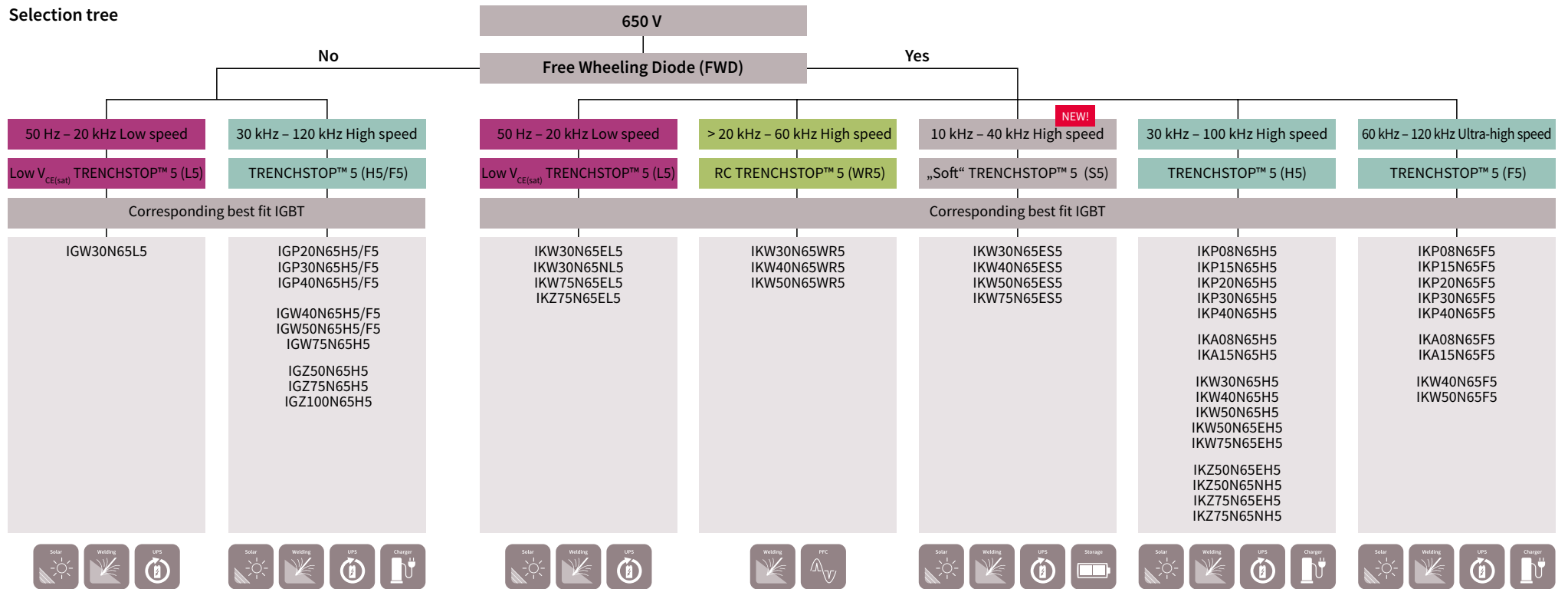
TRENCHSTOP™ 5 Selection Guide

Product family	Value	Industrial applications focus	Applications
TRENCHSTOP™ 5 L5	Best-in-class low $V_{CE(sat)}$ IGBT <ul style="list-style-type: none"> > Low $V_{CE(sat)}$ – 1.05 V at 25°C > Best trade-off $V_{CE(sat)}$ versus E_{ts} for frequencies below 20 kHz > High thermal stability of electrical parameters 	<ul style="list-style-type: none"> > Ultra-low frequency converters > 3-level inverter type I NPC 1 and NPC 2 > Modified HERIC inverter > AC output (Aluminum/Magnesium welding) 	
NEW! TRENCHSTOP™ 5 S5	Best-in-class ease of use IGBT <ul style="list-style-type: none"> > Low $V_{CE(sat)}$ of 1.35 V at 25°C > Soft current fall characteristic with no tail current, low EMI > Allows to reduce circuit complexity – single R_g, no Zener diode, no gate capacitor, no snubber capacitor 	<ul style="list-style-type: none"> > Medium frequency converters > Multilevel inverter stages > Output stages > PFC 	
TRENCHSTOP™ 5 H5/F5	Best-in-class high frequency IGBT <ul style="list-style-type: none"> > Cross over to SuperJunction MOSFETs > Highest efficiency, especially under light load conditions > Lowest switching losses in low stray inductance environment 	<ul style="list-style-type: none"> > High frequency converters > Multilevel inverter stages > Output stages > PFC and battery charger 	
TRENCHSTOP™ 5 WR5	Price optimized, application specific IGBT for resonant topologies Zero Current Switching (ZCS) <ul style="list-style-type: none"> > Optimized full rated hard switching turn-off typically found in welding > Excellent R_g controllability > Soft recovery plus low Q_{rr} for diode 	<ul style="list-style-type: none"> > Medium frequency converters > Zero current switching > PFC 	



TRENCHSTOP™ 5 Selection Guide

Selection tree



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