



Key Features

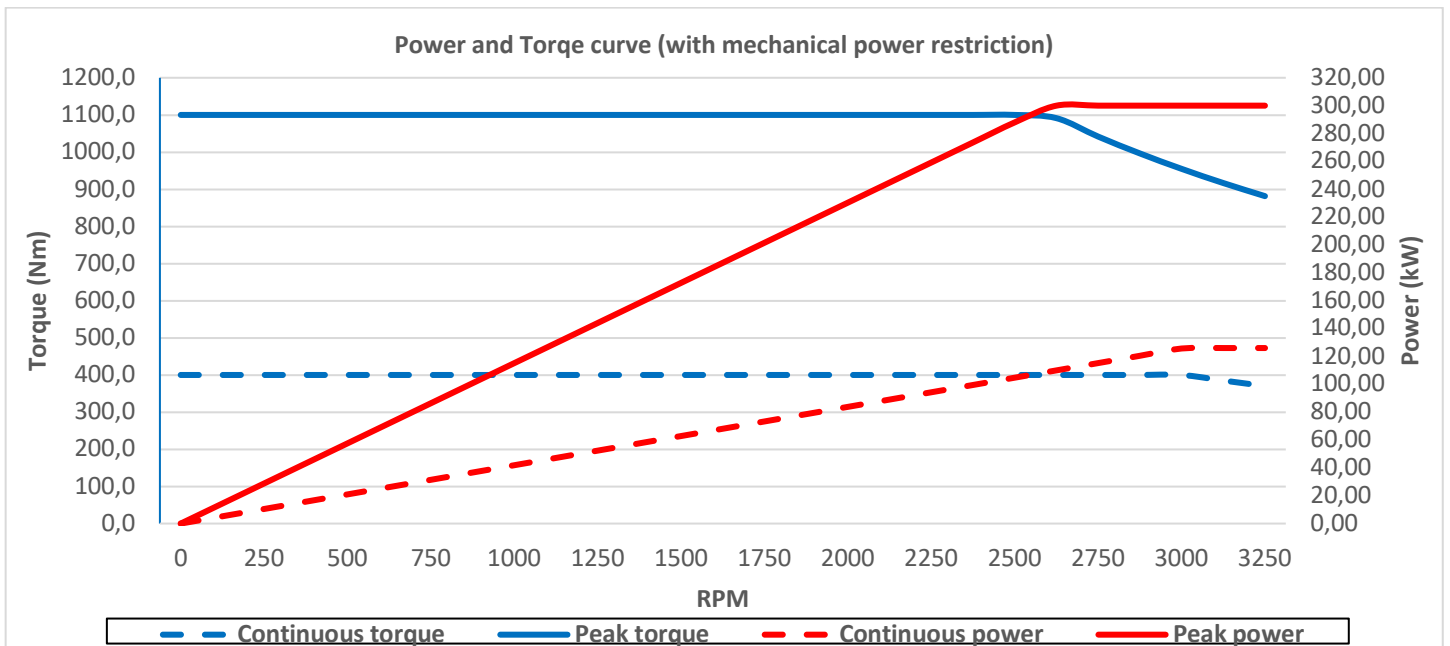
- Predefined motor settings for an easy integration
- Liquid cooled system for high continuous performance operation
- High power/weight ratio
- Configurable parameters for different applications
- Easy to use graphical PC interface

Application

- Motorcycle
- Automotive
- Marine
- Industrial
- Other projects for drive or regenerate

Description

The DTI zapDrive-x motor-controller package family introduces sustainable and highly scalable solution for e-mobility applications with a wide range of power levels from 60kW to as high as 300kW peak performance rating developed for the most common system voltage levels in the industry.



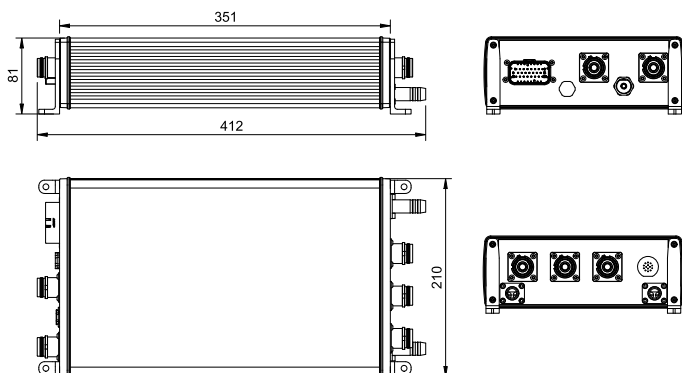
Performance measurement with 800V_{DC}

TECHNICAL SPECIFICATIONS

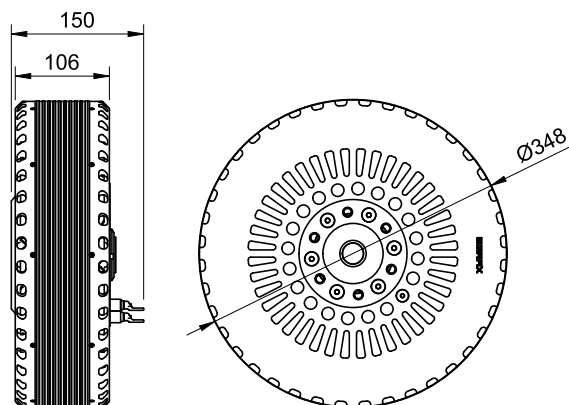
	Drive Kit		Unit
Maximum torque	1100		Nm
Maximum power	300	at nominal V_{DC}	kW
Maximum speed	3200		RPM
Maximum DC current	1100		A
Continuous torque	400	300 sec	Nm
Continuous power	126		kW
	Inverter	Motor	
Type	DTI HV-850	EMRAX 348 (custom)	
Weight	6,8	43,9	kg
Maximum voltage	805 (192S)		V_{DC}
Nominal voltage	720		V_{DC}
Control voltage	9-28	-	V_{DC}
Working temperature	-20-85	-20-100	$^{\circ}C$
IP Protection	IP65		
Position sensor	RLS RM44SI13B		
HV connector	SurLok Plus EMI	Cable lugs	
LV connectors	AMPSEAL 23p	-	
Maximum coolant temperature at input	40		$^{\circ}C$
Coolant mixture	Glycol – Distillate water		
Required coolant flow for best continuous current	18,9	8	L/m
Required coolant pressure for continuous current	1,25	0,9	bar
Max coolant pressure	2		bar
Safety	HVIL	-	

MAIN DIMENSIONS














Inverter



Motor

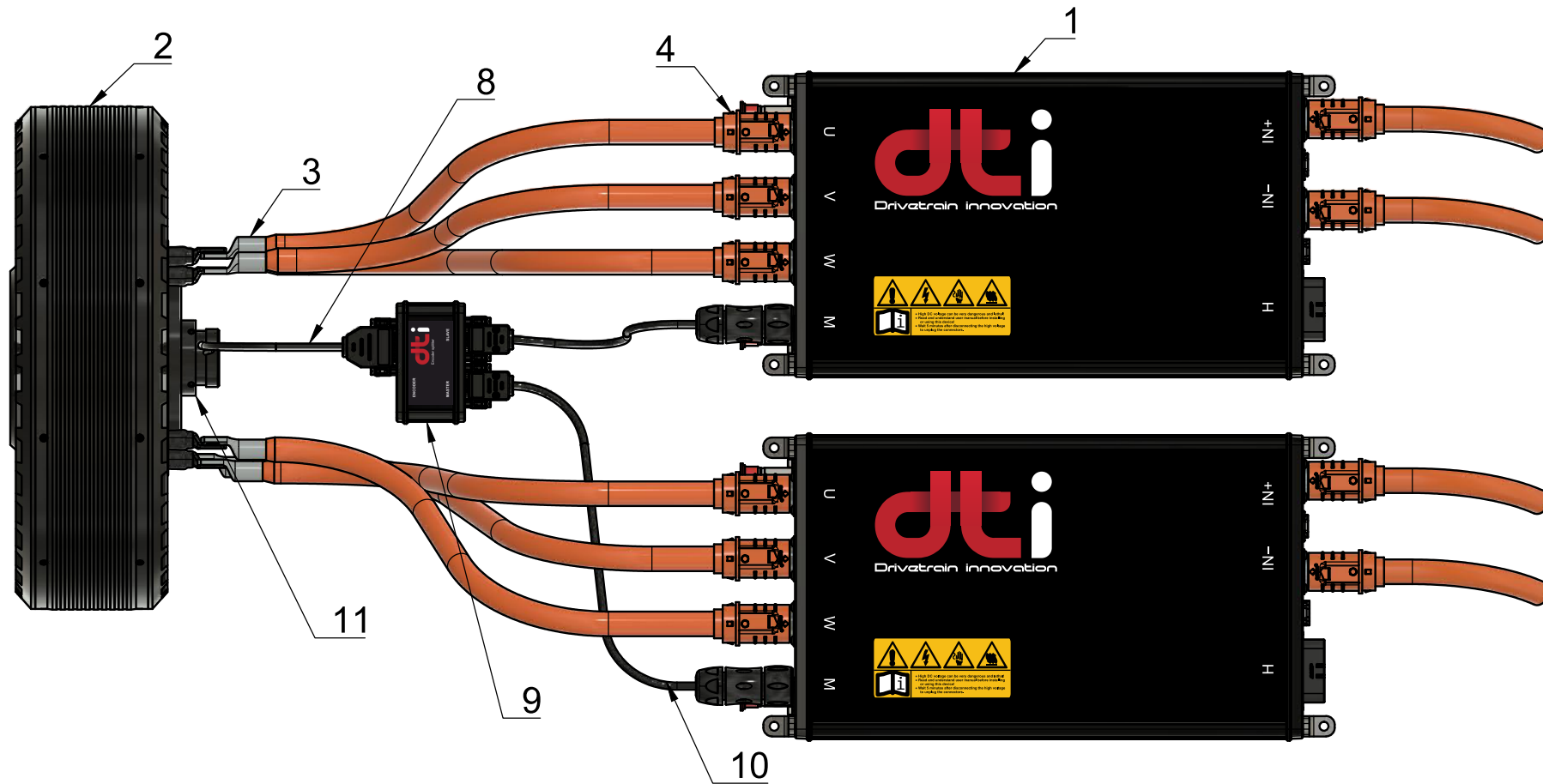


DELIVERED COMPONENTS

Item	Meaning	Pieces	Illustration
1	HV-850 Inverter	2	
2	Emrax 348 motor (custom)	1	
3	Cable lug (M8 X 70mm ²)	6	
4	SurLok Plus EMI connector (for 70mm ² shielded wire)	10	
5	LV wire harness (2m pre crimped wires)	2	
6	Diagnostic tool for configuration	1	
7	Grounding cable (300mm long, holes for M6 screw)	2	
8	RLS encoder with splitter connector (1m)	1	
9	Encoder splitter for double inverter operation	1	
10	Motor sensor cable for encoder splitter	2	
11	Encoder bracket and magnet (assembled for optimal position)	1	
12	Grounding cable for motor(300mm long, holes for M6 and M8 screw)	1	
13	Pipe clamp	6	

The High voltage cable is not included in the kit

ELECTRICAL CONNECTION EXAMPLE



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