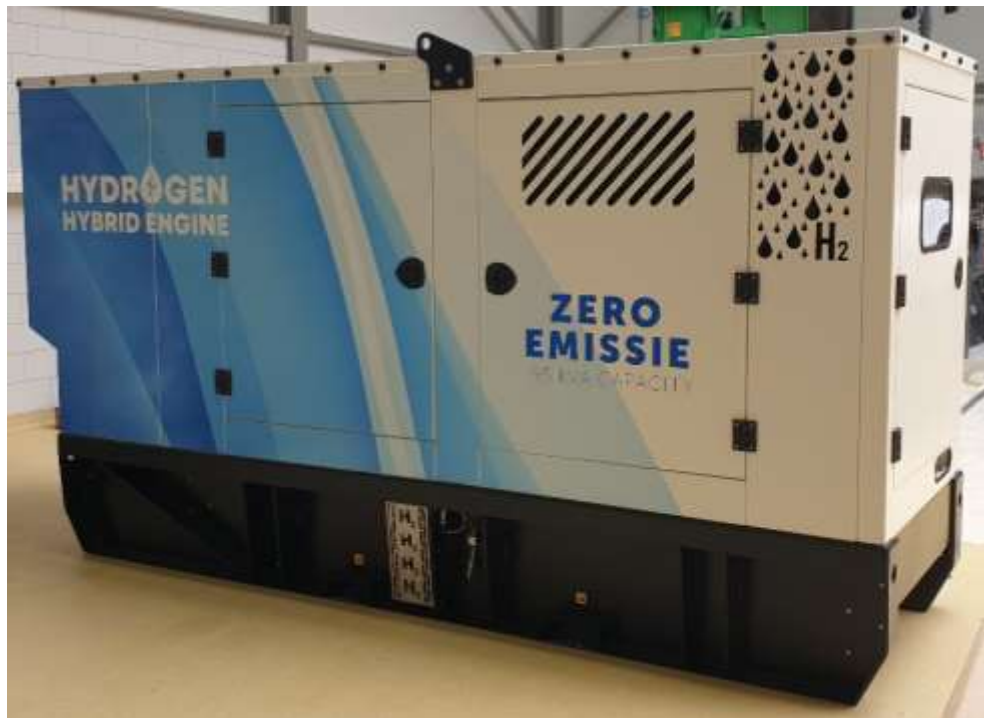


## Hydrogen Hybrid Generator set H2 100/200



Koninklijke Van Twist is een ISO 9001, ISO 14001 en VCA\*\* gecertificeerde organisatie.

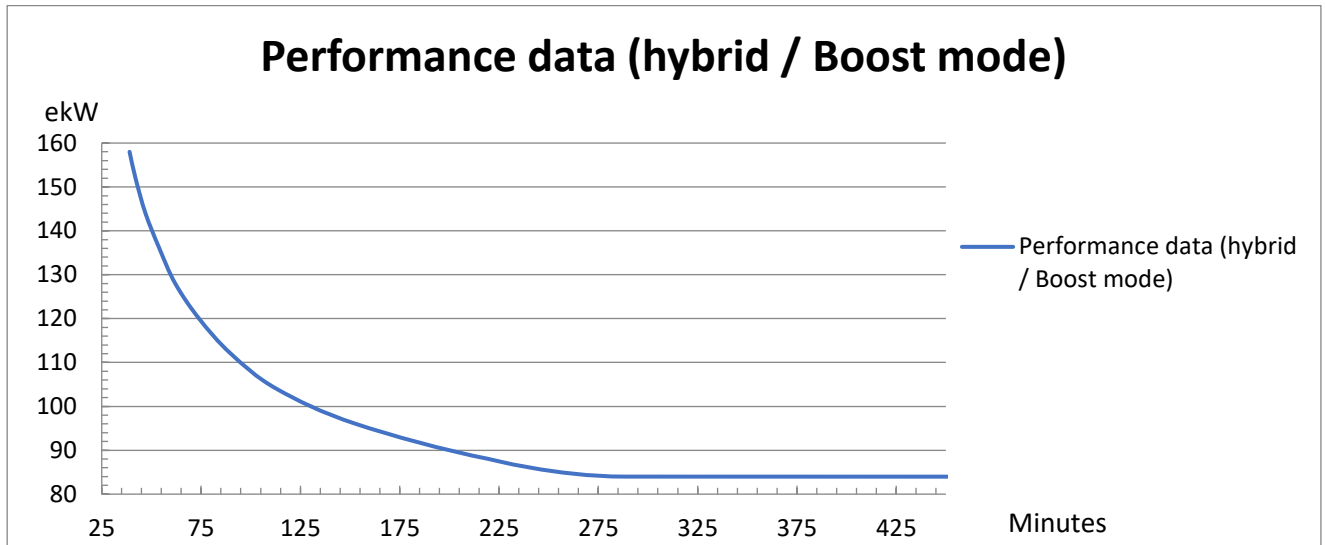
Op alle aanbiedingen en overeenkomsten inzake door ons te verrichten leveringen en/of diensten zijn van toepassing de algemene verkoop- en leveringsvoorwaarden van de Vereniging van Importeurs van Verbrandingsmotoren V.I.V., gedeponereerd bij de Kamer van Koophandel Haaglanden. Een exemplaar van deze voorwaarden is reeds in uw bezit. Uitdrukkelijk worden andersluidende voorwaarden afgewezen.

## Technical data (standard configuration)

Electrical data	Unit	100/ 200
Rated frequency	Hz	50
Rated voltage	V	400
Rated Speed	RPM	1500
Power factor	cos Ø	0,8
<b>Performance data (engine only)</b>		
Nominal Prime power (24/7)	kVA/kWe	105 / 85
<b>Performance data</b>		
200% load (195 kVA/156 kWe)	Min	39
175% load (175 kVA / 140 kWe)	Min	50
150% load (150 kVA / 120 kWe)	Min	74
125% load (125 kVA / 100 kWe)	Min	107
<b>Performance data battery @ 100% battery life.*</b>		
100% load (90 kVA/72 kWe)	Min	37
75% load (67,5 kVA / 54 kWe)	Min	50
50% load (45 kVA / 36 kWe)	Min	81
25% load (22,5 kVA / 18 kWe)	Min	140
<b>Single Step Load Capacity</b>		
Running modus dependent	kWe	130 / 155
<b>In normal operation, charge duration</b>		
@ 0 kVA generator Load	Min.	45
@ 22,5 kVA generator Load	Min.	51
@ 45 kVA generator Load	Min.	74
@ 67,5 kVA generator Load	Min.	133
<b>Fuel consumption (H2 Engine Only)</b>		
Fuel consumption at 100% load	kg/h	9.1
Fuel consumption at 75% load	kg/h	6,8
Fuel consumption at 50% load	kg/h	4,6
Fuel consumption at 37,5% load	kg/h	3,7
Fuel consumption at 25% load	kg/h	2,8

Engine data		
Make		KVT
Model		E70-H2
Cooling		Water
Speed governing		Electronic
Combustion system		PFI Turbo Aftercooled
Number of cylinders		6 in line
Compression Ratio		Special H2 ratio
Displacement		7.0 Liters
Rotation		Anti-clockwise, viewed from flywheel
Aftertreatment		Non
Emission performance equivalent to standard		Zero CO2 Emission
Performance class		ISO 8528
Control system		
Engine and genset control system		Deep see electronics DSE8610 combined with a DSEM870
Hybrid and Boost mode efficiency control (engine on and off/combined or not with batteries)		Managed automatically by optimisation and efficiency software
Battery pack data		
Battery type (Water-Cooled)		LiFePo4
Battery pack capacity <sup>1</sup>	kWh	84,6
Battery pack capacity <sup>2</sup>	V	423.4
Battery pack capacity <sup>3</sup>	Ah	200
Active individual battery management system		Included
Battery charging system		1 x 6.6 kw CAN Bus Lithium chargers, External Charge Option 1 x 32amp/380V Supply
Battery life		>2000 cycles
Dimensions		
Dimensions L x W x H (standard)	mm	3870 x 1210 x 2130
Weight : dry /wet	kg	3230 / 3490

Performance data Hybrid mode: Generator output in ekW vs duration in Minutes. Engine at 100% load continuous and battery life starting at 100%



Performance data (hybrid / Boost mode)			
kVa	COSphi	ekw	min
195	0,8	156	39
190	0,8	152	42
180	0,8	144	47
170	0,8	136	54
160	0,8	128	62
150	0,8	120	74
140	0,8	112	90
130	0,8	104	113
120	0,8	96	153
110	0,8	88	220
105	0,8	84	288