



FORWARD LOOKING STATEMENT NOTICE

Certain information regarding the Company contained herein may constitute forward-looking statements within the meaning of applicable securities laws. Forward-looking statements may include estimates, plans, expectations, opinions, forecasts, projections, guidance, or other statements that are not statements of fact. Although the Company believes that the expectations reflected in such forward-looking statements are reasonable, it can give no assurance that such expectations will prove to have been correct. The Company cautions that actual performance will be affected by a number of factors, many of which are beyond the Company's control, and that future events and results may vary substantially from what the Company currently foresees.

Discussion of the various factors that may affect future results is contained in the Company's Annual Report which is available at www.sedar.com. The Company's forward-looking statements are expressly qualified in their entirety by this cautionary statement.

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WHAT WE DO

Hillcrest leverages proprietary technology to develop highly adaptive power conversion technologies and control system solutions for next generation powertrains

HOW WE DO IT

Hillcrest is building a global team of world-class firmware developers, power electronics engineers/ designers and commercialization experts in the automotive and power sectors

WHY WE DO IT

Hillcrest is investing in energy solutions that will power a more sustainable and electrified future



HILLCREST HEI SOLVING INDUSTRY CHALLENGES

HILLCREST IS SOLVING MAJOR CHALLENGES FACED BY TODAY'S EV OEM'S

Smaller + Lighter + More Powerful Higher Efficiency



System Reliability + Performance

HILLCREST HEI HIGH EFFICIENCY INVERTER (HEI)

RATED

- 250 kW continuous | 350 kW peak
- 800 V nominal | 1,000 V peak

DESIGN SPECS

- Automotive Standards
- Mass Production
- Use of Off-the-Shelf Components

ESTIMATED VOLUME

6.5 Litres

TARGETED POWER DENSITY

~50 kW/L





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HILLCREST HEI INDUSTRY-LEADING POWER DENSITY



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6

energy technologies

(universal)

HILLCREST HEI VALUE PROPOSITION





needs

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reliability

+99% INVERTER EFFICIENCY





* HEI measurements collected March 2022 using Yokogawa Precision Power Analyzer

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HILLCREST HEI ELIMINATES DESIGN TRADEOFFS



870 V 250 HEI HEI ENABLES HIGHER SWITCHING FREQUENCIES WITHOUT INCREASING 200 Conventional SEMICONDUCTOR TEMPERATURES ≥ SiC Losses 100 HEI IMPROVES MOTOR EFFICIENCY 40 10 60 Switching Frequency (kHz)

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HILLCREST HEI COMMERCIALIZATION TIMELINE*





*Additional Hillcrest component and system-level technologies also under development

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HILLCREST CORPORATE UPDATE

Award winning IR/PR firm with long history working with manufacturers and suppliers in **automotive**, **aviation**, **aerospace and defense**

Lambert offers significant **experience raising the profile** of micro-, small-, and mid-cap companies like Hillcrest





BIG IDEAS AND BOTTOM-LINE OUTCOMES

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HILLCREST CORPORATE UPDATE EXPANDING CAPABILITY





Developing global commercialization expertise and network Ø

Growing Hillcrest technical team

Expansion of dedicated Systematec GmbH resources

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CONTACT US

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HILLCREST HEI INVERTER SPECIFICATIONS

Description	Expression	Value
Rated Voltage	V _N	800V
Minimale Input Voltage	V _{min}	470V
Maximum Input Voltage	U_{max}	1000V
Maximum Intermediate Circuit Current	ا _{dc_max}	400 A
Expected Top Performance	S _{max}	350 kVA
Expected Rated Power	S	250 kVA
Maximum Phase Current	I _{ph_max}	360A
Phase Current	I _{ph}	260A
Revolutions	Ν	Variable
Pole Pairs	р	Variable
Sine Frequency	f _{sin}	Variable
Switching Frequency	f _{sw}	50kHz nominal 5 kHz-100kHz Variable
Environment Temperature	T_{amb}	-40°C125°C
Coolant Temperature (water cooling)	T _{Cool}	-40°C70°C

THANK YOU!

