



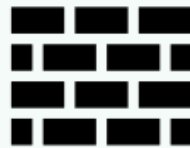
INTEGRAL
CONTROL SYSTEMS LTD.



AC Traction Inverter

→  ← **50% Smaller***

"A cornerstone of
our (hydrogen)
program"
-CPKC



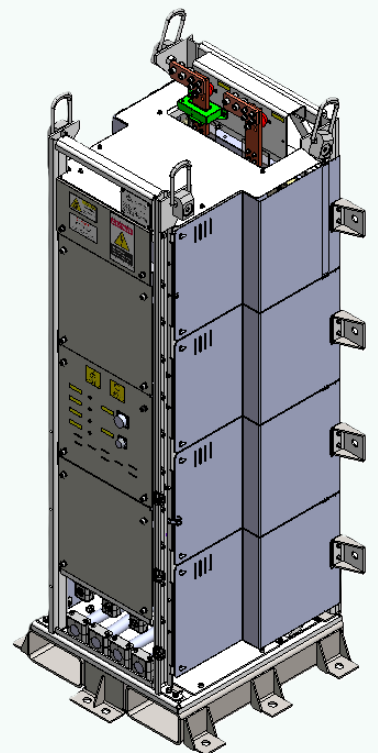
Military Grade

MIL-STD-810G EN50155



DC Link up to 1500V

Integral's Traction
Inverter System is
the #1 choice for
replacement traction
inverters, designed to
slot in and out perform
OEM solutions



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INTEGRAL
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AC Traction Inverter

Key Benefits

- 1500Vdc DC link interface working voltage
- Slots comfortably in many existing Line-Haul Locomotives
- Designed for the most demanding locomotive applications
- 'Filterless' output designed to work with railway AC traction motors
- Reduce HV compartment space required by 50%*
- Integrated capacitor bank simplifies installation
- Liquid cooled thermal management
- Seamless integration with the Integral LCC Locomotive Control Computer
- Includes Integral's Traction Control Computer (TCC) for control and communications
- Class leading warranty

*Compared with conventional catalog industrial DC/AC drive solutions

HV DC Link Input

- Working input voltage: 500Vdc - 1500Vdc
- Maximum input current: 700Adc
- Rated Power: 746kW @ 1000Vdc

HV AC Output

- Output frequency range: 0-200 Hz
- Maximum continuous operating current: 1200Arms
- Maximum continuous operating voltage: 1000Vrms
- Peak output current protection limit (software): 2300Apk

Mechanical

- Dimensions: 28.5" (W) x 68.0" (H) x 25.8" (D)
- Weight: 1130lbs
- Operating ambient temperature: -40°C to 50°C
- Shock and vibration: MIL-STD-810G

Control Power Management

- Nominal supply input 72Vdc with ultra-wide transient range 16.8Vdc-160Vdc
- Isolated EN50155 rated internal power supply
- Reverse bias protection/overvoltage protection/undervoltage protection

Control
Systems

Speed
Sensing

EOT
Integration

Design
Services



Air Brake
Integration

Operator
Displays

Power
Electronics

Remote
Monitoring