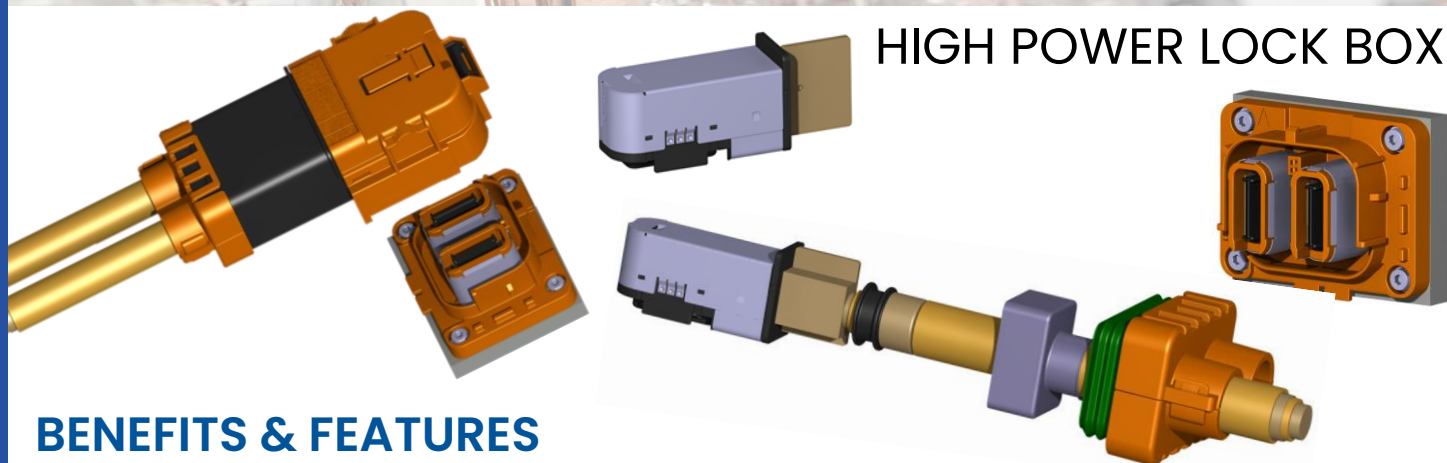


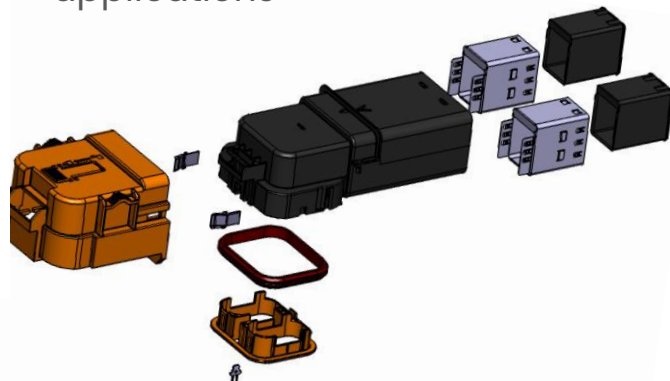
# 2P INFINITY SERIES LP8 HV CONNECTOR SYSTEM



HIGH POWER LOCK BOX

## BENEFITS & FEATURES

- ⊕ Patented Terminal Contact System
- ⊕ Industry Leading Power Density - Enables smaller connector packaging and reduces weight
- ⊕ Ultra Efficiency - Negligible Resistance Loss as compared to bolted contacts
- ⊕ Internal Shielding with Ag plating
- ⊕ Validated to USCAR-2 T4 / V4 / S3
- ⊕ Inner Components UL 94 V-0 (CTI > 600V)
- ⊕ Outer Components UL HB
- ⊕ 5x standard requirements
  - ⊕ Terminal to Housing Retention: >500N
  - ⊕ CPA Misc. Engage Force: >500N
  - ⊕ Connector Pull-Off Force: >500N
- ⊕ High Voltage Interlock Circuit
- ⊕ Compact Ergonomic Design
- ⊕ Push, Click, Pull, Scan Mating Process
- ⊕ USCAR & ISO Finger Proofed Design
- ⊕ Visual ID for Confirmed Full Lock
- ⊕ Scanning QR Code for required applications



### TERMINAL CAPABILITIES

Terminal Construction	Six-piece
Wire Gage Range (AWG)	1/0
Wire Gage Range (mm <sup>2</sup> )	50
Configuration	Inline/Device
Sealing Options	Cable Sealed
Plating Options	Sn, Ag
Terminal Orientation	90°
USCAR-20	>150,000 miles
Rated Voltage	630V



MAX TEMPERATURE  
150°C



MAX VIBRATION  
31 G



MAX CURRENT  
630 A

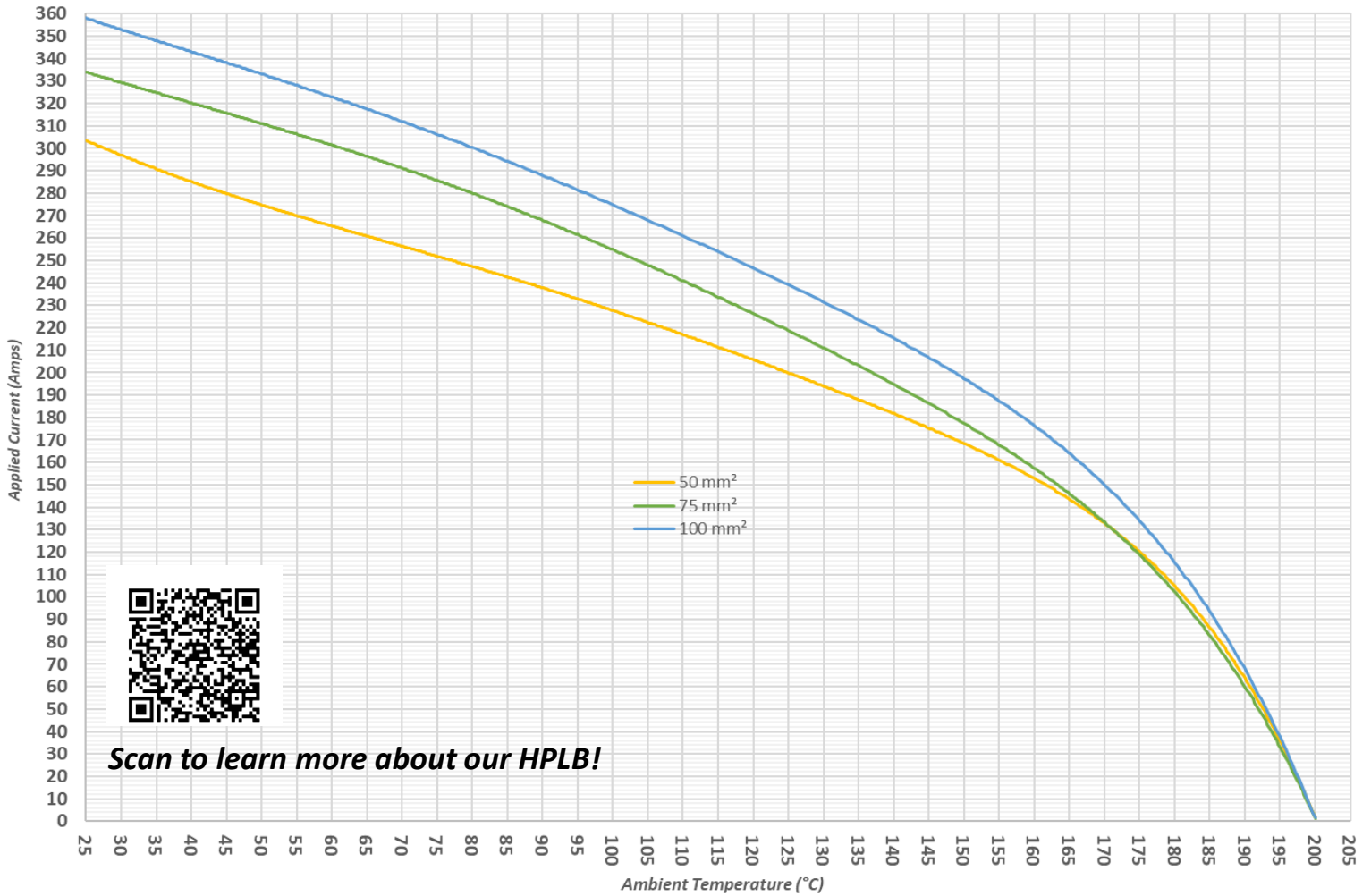


### TECHNICAL CHARACTERISTICS

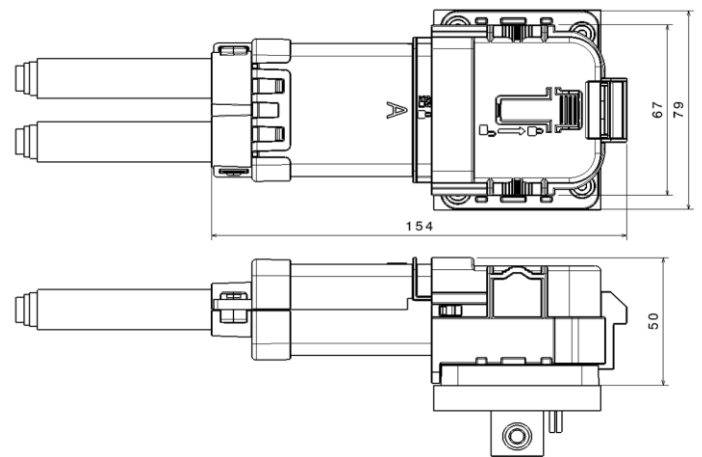
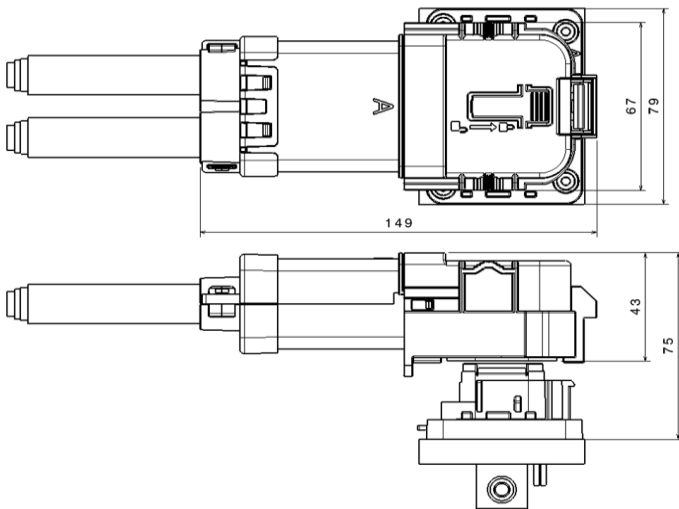
Contact Resistance	0.22 mΩ
Contact Mating Force	USCAR-25 compliant
Contact Un-mating Force	USCAR-25 compliant
Mating Cycles	30 (Sn) / 50 (Ag)

# 2P HPLB LP8 Sealed Connector System (Ag Plated)

## Derated at 80% (Preliminary Data)



### PACKAGING



Customer and Interface drawings available upon request

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**Royal** POWER SOLUTIONS  
POWERING GREAT CONNECTIONS