



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ROYAL POWER SOLUTIONS  
125 Mercedes Drive  
Carol Stream, IL 60188  
Larry Brooks Phone: 630 384 5559

MECHANICAL

Valid to: October 31, 2023

Certificate Number: 5404.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on connector housings, terminals, and connector assemblies:

<b><u>Test:</u></b>	<b><u>Test Method(s):</u></b>
Vibration testing (Random Vibration) (Sinusoidal Vibration)	USCAR 2 MIL-STD-810
Mechanical Shock	USCAR 2 MIL-STD-810
Resistance Measurements	USCAR 2 USCAR 21 USCAR 38
Dielectric Withstand & Insulation Resistance Testing	USCAR 2 USCAR 21 USCAR 37 USCAR 38
Maximum Current	USCAR 2
Current Cycling	USCAR 2 USCAR 21
Temperature Testing	USCAR 2 USCAR 21
Temperature Humidity Testing	USCAR 2 USCAR 21

**Test:**

**Test Method(s):**

Thermal Shock Testing

USCAR 2  
USCAR 21  
USCAR 38

Fluid Susceptibility

USCAR 2

Voltage Drop

USCAR 2  
USCAR 21

Force Testing

USCAR 21  
USCAR 2  
USCAR 38  
USCAR 25  
USCAR 37

Cross Sectional Analysis

USCAR 21  
USCAR 38



## Accredited Laboratory

A2LA has accredited

### ROYAL POWER SOLUTIONS

*Carol Stream, IL*

for technical competence in the field of

### Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23<sup>rd</sup> day of November 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 5404.01  
Valid to October 31, 2023

*For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*