

## 10.6 Scope of Accreditation

Issue No: 01/ Issue Date: 31<sup>st</sup> August 2022  
File Manager: Atta Subhan



ACCREDITED  
**TESTING**  
ISO/IEC 17025:2017  
No. ATL 0140

### Testing Laboratory Accreditation No. ATL 0140

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International Standard ISO/IEC 17025:2017, "General requirements for the competence of testing and calibration laboratories"

<b>Eram Power Electronics Company</b>	
<p>Address.</p> <p>Road 22, 3rd Industrial Area, Dammam 34856, Kingdom of Saudi Arabia</p>	<p>Contact Person: Bernardo Firme Tel: +966 13 840 4500 Fax: +966 13 8496010 Email: <a href="mailto:bernardo.firme@apcc.sa.com">bernardo.firme@apcc.sa.com</a> Web Address: <a href="http://www.eramelectronics.com">www.eramelectronics.com</a></p>

#### **Locations where testing activities covered by the above Accreditation Standard are undertaken**

1- **address:** Road 22, 3rd Industrial Area, Dammam 34856, Kingdom of Saudi Arabia

#### **For the following scope:**

Version: 3.7

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Date: 10<sup>th</sup> March 2022

Approved by: Brahim Houla

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### 3. Performance and Approvals Testing

3.06 Cells and batteries

3.08 Electronic components

Scope details are as follows:

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Remarks
Performance and Approvals Testing (Electricity)	UPS – Uninterruptible Power Systems	<ul style="list-style-type: none"> <li>6.2.2.2 - Cable and Interconnection Check, 6.2.2.3 Control and Protective device(s)</li> <li>6.2.2.3(g) - Manual transfer to bypass/isolation mode and back to normal</li> <li>6.2.2.4- No load,</li> <li>6.2.2.5 - Full load,</li> <li>6.2.2.7 - AC input failure</li> <li>6.2.2.8 - AC input return,</li> </ul>	IEC 62040-3:2011-03 – Edition 2.0	

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		<ul style="list-style-type: none"> <li>• 6.2.2.9 - Transfer test to bypass,</li> <li>• 6.4.1.1 - Steady-state input voltage tolerance, 6.4.1.2 - Input frequency tolerance</li> <li>• 6.4.1.3 - Input inrush current,</li> <li>• 6.4.1.4 - Harmonic distortion of input current</li> <li>• 6.4.1.5 - Power factor,</li> <li>• 6.4.2.1- Output – Linear load, Normal mode -no load</li> <li>• 6.4.2.2 - Output – Linear load, Normal mode full load</li> <li>• 6.4.2.5 - 3-phase voltage unbalance</li> <li>• 6.4.2.6- DC voltage component</li> <li>• 6.4.2.10.1- Overload – Normal mode</li> <li>• 6.4.4.3- Battery ripple current</li> <li>• 6.4.4.1- Stored energy times</li> <li>• 6.4.4.2- Restored energy times</li> </ul>		
Performance and Approvals Testing (Electricity)	Battery Chargers (Semi-conductor converters)	<ul style="list-style-type: none"> <li>• Visual Inspection</li> <li>• Insulation Test</li> <li>• Light load and functional test</li> <li>• Rated current</li> <li>• Temperature rise test</li> <li>• Power factor measurement</li> <li>• Efficiency test</li> <li>• Checking of Auxiliary device</li> <li>• Measurement of audible noise</li> </ul>	IEC 60146-1-1:2009 Edition 4 NEMA – PE5-1997 (R2003)	

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		<ul style="list-style-type: none"> <li>• Phase failure</li> <li>• Voltage regulation and adjustment</li> <li>• Dynamic Response Test</li> <li>• Current Limit</li> <li>• Input Current</li> <li>• Inrush Current</li> <li>• Low Input Voltage Protection</li> <li>• Ripple Voltage</li> <li>• Short Circuit Test</li> <li>• Start-up Behavior</li> <li>• Supervisory Control</li> <li>• Voltage Adjustment</li> </ul>		
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**Note:** the text in blue indicates the new scope OR update in the Edition of a test method in this issue of the scope of accreditation.

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### Log of Suspended Scopes: None

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Suspended	Date Reinstated

### Log of Withdrawn Scopes: None

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Withdrawn

**END**

Status of this accreditation can be checked in the GAC's website to confirm the validity of this accreditation - <https://www.gac.org.sa/en/>