

Name: Shenzhen Academy of Metrology & Quality Inspection

Address: No.4, Tongfa Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

Registration No. CNAS L0579

Accreditation Criteria: ISO/IEC 17025 and relevant requirements of CNAS

Effective Date: 2018-10-19 Expiry Date: 2024-12-09

SCHEDULE 3 ACCREDITED TESTING SCOPE

| № | Test Object | Item/Parameter | | Standard or Method | Note |
|-------------------------------------|----------------------------------|----------------|--------------------|--|---|
| | | № | Item/ Parameter | | |
| 一、Test items of Electrical products | | | | | |
| 1 | Information technology equipment | | Part of Parameters | Information technology equipment-Safety-Part 1:General requirements GB 4943.1-2011 | Except for:Mechanical strength and explosion protection of picture tube |
| | | 1 | Components | Information technology equipment-Safety-Part 1:General requirements GB 4943.1-2011 1.5 | Plug socket detection capability above GB/T2099.1-2008 at |



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| | systems | | | | module simulator |
| | | 1 | System preconditioning | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 13.3.2 | |
| | | 2 | Verify load operation | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 13.3.3 | |
| | | 3 | Visual inspection | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 13.4 | |
| | | 4 | Initial capacity test | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 16.2 | |
| | | 5 | Battery charge cycle | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 16.3 | |
| | | 6 | System functional test | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 16.4 | |
| | | 7 | Second capacitor test | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 16.5 | |
| | | 8 | Recovery test | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 16.6 | |
| | | 9 | Final capacitor test | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 16.7 | |
| | | 10 | Operation at maximum voltage | Photovoltaic (PV) stand alone systems - Design verification IEC 62124:2004/ EN 62124:2005 16.8 | |
| 42 | Small renewable energy and hybrid systems for rural electrification | | All parameters | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 | |
| | | 1 | Visual screen | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex F | |



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| | | 2 | Light output test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex I | |
| | | 3 | Lumen maintenance test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex J | |
| | | 4 | Battery test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex K | |
| | | 5 | Full-battery run time test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex M | |
| | | 6 | Grid charge test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex O | |
| | | 7 | Electromechanical charge test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex P | |
| | | 8 | Photovoltaic module I-V characteristics test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex Q | |
| | | 9 | Solar charge test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems | |



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| | | № | Item/ Parameter | | |
| | | | | -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex R | |
| | | 10 | Charge controller behaviour test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex S | |
| | | 11 | Light distribution test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex T | |
| | | 12 | Physical and water ingress protection test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex U | |
| | | 13 | Mechanical durability test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex W | |
| | | 14 | Battery durability test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex BB | |
| | | 15 | Protection test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex DD | |
| | | 16 | Assessment of DC ports | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex EE | |



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| | | 17 | Appliance tests | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2016 Annex FF | |
| 43 | Small renewable energy and hybrid systems for rural electrification | | All parameters | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 | |
| | | 1 | Visula screen | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex F | |
| | | 2 | Light output test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex I | |
| | | 3 | Lumen maintenance test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex J | |
| | | 4 | Battery test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex K | |
| | | 5 | Full-battery run time test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex M | |
| | | 6 | Grid charge test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems | |



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| | | | | -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex O | |
| | | 7 | Electromechanical charge test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex P | |
| | | 8 | Photovoltaic module I-V characteristics test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex Q | |
| | | 9 | Solar charge test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex R | |
| | | 10 | Charge controller behaviour test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex S | |
| | | 11 | Light distribution test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex T | |
| | | 12 | Physical and water ingress protection test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex U | |
| | | 13 | Mechanical durability test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems -Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex W | |



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| | | 14 | Battery durability test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex BB | |
| | | 15 | Protection test | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex DD | |
| | | 16 | Assessment of DC ports | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex EE | |
| | | 17 | Appliance tests | RECOMMENDATIONS FOR RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION –Part 9-5: Integrated systems –Selection of stand-alone lighting kits for rural electrification IEC 62257-9-5:2018 Annex FF | |
| 44 | Solar home system | | All Parameters | Solar home system specifications and test procedure GB/T 19064-2003 | |
| | | 1 | Tests of PV module | Solar home system specifications and test procedure GB/T 19064-2003 8.1 | |
| | | 2 | Tests of charge controller | Solar home system specifications and test procedure GB/T 19064-2003 8.2 | |
| | | 3 | Tests of DC luminaire | Solar home system specifications and test procedure GB/T 19064-2003 8.3 | |
| | | 4 | Tests of DC/AC converter | Solar home system specifications and test procedure GB/T 19064-2003 8.4 | |
| 45 | Solar photovoltaic (PV) lighting installation | | All Parameters | Generic technical specification of solar photovoltaic (PV) lighting installation GB/T 24460:2009 | |
| | | 1 | PV module | Generic technical specification of solar photovoltaic (PV) lighting installation GB/T 24460:2009 7.1.1 | |



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