



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)


मानक भवन, 9 बहादुर शाह जफ़र मार्ग, नई दिल्ली - 110002
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ई-मेल / E-mail: registration@bis.gov.in
वेबसाइट / Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: REGISTRATION/CRS 2021-6950/R-71018473

Date:27-09-2024

Inclusion Id: 86324

Subject :Inclusion of Additional Model(s)

MANUFACTURING UNIT :	SELEC CONTROLS PRIVATE LIMITED EL-27/1 EL-27/1 PT, EL-27/2 EL-27/3, ELECTRONIC ZONE, TTCINDUSTRIAL AREA, MIDC MAHAPE NAI MUMBAI, RAIGAD,MAHARASHTRA, 400710 MAHARASHTRA,India-400710 ihassan@selec.com 022 4039 4200	
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Dear Sir,

1. This has reference to your request for inclusion of models of "Utility-Interconnected Photovoltaic Inverters" as per IS 16169 : 2014 / IEC 62116 : 2008,IS 16221 (Part 2) : 2015 / IEC 62109-2 : 2011 in Licence No. R-71018473 already granted to you which is valid upto 13-12-2025.

2. It is intimated that the additional Models as per details given below have been agreed to be included in your scope of Licence. R-71018473 w.e.f. 27-09-2024:

Product Category	Utility-Interconnected Photovoltaic Inverters
Product Name	Utility-Interconnected Photovoltaic Inverters
IS No.	IS 16169 : 2014 / IEC 62116 : 2008,IS 16221 (Part 2) : 2015 / IEC 62109-2 : 2011
Brand (As Declared by Manufacturer):	SELEC
Inclusion of Additional Models (w.e.f. 27-09-2024)	[Brand -> SELEC, Models -> GTI001WLM1PW2, GTI002WLM1PW2, GTI003WLM1PW2, GTI004WLM1PW, GTI005WLM1PW, GTI006WLM1PW]
Factory Address	EL-27/1 EL-27/1 PT, EL-27/2 EL-27/3, ELECTRONIC ZONE, TTCINDUSTRIAL AREA, MIDC MAHAPE NAI MUMBAI, RAIGAD,MAHARASHTRA, 400710 MAHARASHTRA,India-400710

3. Other terms and conditions of the licence shall remain same.

4. This letter is being issued with the approval of competent authority.

Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Jainendra Kumar)
Scientist-D
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.

For details information on BIS, consult the e-BIS Portal (www.manakonline.in).
Please use BIS CARE APP for verification of ISI-marked goods and hallmarked gold jewellery.



DELHI TEST HOUSE®



Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529 Mobile : 09050604301, 09050604350
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



Issued to:
 Selec Controls Pvt. Ltd.
 EL-27/1, EL-27/IPT, EL-27/2 AND EL-27/3,
 TTC Industrial Area, Electronic Zone, MIDC Mahape,
 Navi Mumbai 400710 INDIA

QR: 1401
 Report No.:249195240718KUNE9000
 Date of Issue:13.08.2024
 Date of Receipt:18.07.2024
 Party Ref. No.:LOI_DTH_TT_0724_00
 Letter Date:16.07.2024

Sample Description: PV GRID INVERTER

Model name: Lead model: GTI002WLMIPW2,
Series Model: GTI002WLMIPNS2

Sample received condition: Good

Reference Specification: IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-21,
 IEC 60068-2-27, IEC 60068-2-30, IEC 60068-2-75, IEC 60068-2-78.

Electronics Testing
Environmental Test Facility

Test Report

Test item identification: PV GRID INVERTER
Model name: Lead model: GTI002WLMIPW2, Series Model: GTI002WLMIPNS2
Serial no.: C022407N07-001
Job Order No.: 5240718KUNE009
Altitude of operation: <2000m above sea level
Testing laboratory and its address: DELHI TEST HOUSE Plot No. 50, Phase-IV, Sector-57, HSIDC Industrial Area, Kundli, Sonapat, Haryana-131028
Testspecification: IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-21, IEC 60068-2-27, IEC 60068-2-30, IEC 60068-2-75, IEC 60068-2-78
Test Result: Thetestitempassedthetestspecification(s).
OtherAspects: The test had been performed on GTI002WLM1PW2 are valid for GTI002WLMIPNS2 due to they have identical metal enclosure.
Abbreviations: P(ass)=Passed F(ail)= Failed N/A=Notapplicable
This test report relates to the test sample submitted

ULR-TC537524100004960F

1 of 7

Tested By: *Neeraj*
 Neeraj
 Test Engineer

Reviewed By: *Sumanshu*
 Sumanshu
 Test Engineer



KUNDLI

ASHISH GOEL

Authorised Signatory - Director

Director

ISO - 9001 : 2015 CERTIFIED LABORATORY

Head Office : A-62/3, G.T. Karnal Road, Industrial Area, Opp. Hans Cinema, Azadpur, Delhi-110 033 (INDIA)



DELHI TEST HOUSE®



Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Estate, Behind Hasija Hospital, Kundli, Sonipat-131028 (Haryana)
Telefax : 0130-2116529, 08814000469, 09050604350
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



Issued to:
Selec Controls Pvt. Ltd.
EL-27/1, EL-27/1PT, EL-27/2 AND EL-27/3,
TTC Industrial Area, Electronic Zone, MIDC Mahape,
Navi Mumbai 400710 INDIA

QR: 1401
Report No.:249194240718KUNE8000
Date of Issue: 24.07.2024
Date of Receipt: 18.07.2024
Party Ref. No.: LOI_DTH_TT_0724_00
Letter Date: 16.07.2024

Sample Description: PV GRID INVERTER
Model name: Lead model: GTI002WLM1PW2,
Series Model: GTI002WLM1PNS2
Test-IP65
Reference Specification: IEC 60529- 2001
Electronics Testing
Environmental Test Facility

Test Report

Job Order No.: 5240718KUNE008
Testing laboratory and its address: Delhi Test House Plot No-50, Phase-IV,Sector-57, HSI IDC Kundli-131028, Haryana, India
Test Specification :IEC 60529-2001
Test Result: The test item passed the test specification(s).
Other Aspects: Nil
Abbreviations: P = Passed, F = Failed, N/A = Not applicable
This test report relates to the test sample submitted

ULR-TC537524100004581F

1 of 2

Tested By: Neeraj
Test Engineer

Reviewed By: Sumanshu
Test Engineer

ASHISH GOEL

Authorised Signatory - Director

ISO - 9001 : 2015 CERTIFIED LABORATORY

Head Office : A-62/3, G.T. Karnal Road, Industrial Area, Opp. Hans Cinema, Azadpur, Delhi-110 033 (INDIA)
Phone : +91-11-47075555 (30 Lines) e-mail : info@delhitesthouse.com


TEST REPORT

ULR No.:	TC132782400000647F		Page 1 of 5	
Test Report No.:	TR120240823029	Issue Date:	23/08/2024	
Discipline:	Electrical	Group:	Power Supplies & Stabilizers Lamps, Luminaries & Accessories	
Name of Customer (Report Issued to):	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Name of Manufacturer:	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Item Description:	Said to be, "2.5kw 1PH Solar Inverter"			
Sample Condition:	Fit for Testing			
Identification:	Model No.:	GTI002WLM1PW2	Serial No.:	Nil
			Sample Code:	Nil
Sample Deposited/Collected by:	Customer			
Reference no.	Nil	Date:	12/07/2024	
Job Order No.:	BTH-R1/EL/240719/5	Date of receipt:	19/07/2024	
Date(s) of performance of tests:	20/08/2024 to 21/08/2024			
Laboratory Name and Address:	BHARAT TEST HOUSE PVT. LTD. 1474, HSIIDC Indl. Estate, Rai, Distt. Sonapat-131029 Haryana.		 Scan this QR Code to verify the Report	
Test Location:	At Lab			
Test specification(s):	IEC 61000-3-2:2018/ IEC 61727:2004/ IEC 61000-3-3:2013+A1:2017			
General Environmental Conditions:	Temp: 25 ± 10°C, Relative Humidity: 55 ± 10% Atmospheric Pressure: 98 kPa			
Result:	The test results reported are as per relevant test Specifications/standards.			
Supplementary Information:	- Deviation from the test methods as prescribed in relevant Specification/Work Instructions: Nil - The information supplied by the customer may affect the validity of results reported as per standard requirement. - Statement of Conformity is not required by the customer. - Authorised signatory is responsible for the results reported by the lab for the requested activity by the customer except for the information provided by the customer.			
Abbreviations:	IEC: International Electro technical Commission, EUT: Equipment Under Test, L: Line, N: Neutral, PE: Protective Earth.			
Remarks:	1. This report is supplementary with reference to our earlier test report no. TR120240808005 dated 08/08/2024 & TR120240820018 dated 20/08/2024. 2. The test(s) have been carried out as per customer request only. 3. The report has been generated and verified digitally.			
The report is related to the test sample submitted.				
Tested by:	Reviewed by:	Authorized by:		
				
Sonu Kumar	Vaibhav Gupta	Vaibhav Gupta		
Testing Engineer	Authorized Signatory	Authorized Signatory		
Date: 23/08/2024	Date: 23/08/2024	Date: 23/08/2024		

The NABL Accreditation and the BIS recognition claimed is valid only for the scope of accreditation and recognition as on date of this report, as mentioned on NABL and BIS Website respectively. BTHPL/7.2/01

BHARAT TEST HOUSE PVT. LTD.

1474, HSIIDC Industrial Estate, Rai, Distt. Sonipat, Haryana-131029
 Tel.: 0130-2367673 | Mob.: 9310314585, 8930260106 | email: bthrai@bharattesthouse.com

(1)The above results are related only to the Tests/Calibration performed on the product received. Endorsement of product is neither inferred nor implied. (2) This report is not to be reproduced wholly or in part & forbidden to be used as an evidence in the court law & ought not to be used in any advertising media without our special permission in writing. (3) Samples will be disposed after 30 days except perishable items (within 7days) from date of issue of report or as per the regulatory guidelines, if not collected or claimed by the customer. (4) Total liability of our Test House is limited to the invoice amount only. (5) Report refers to the product received by Bharat Test House Pvt. Ltd. unless mentioned otherwise.

SUMMARY TEST REPORT FOR GRID TIE SOLAR INVERTER

Report No: EMC/AUG/2425/36/GRID TIE SOLAR INVERTER



Summary Test Report for Grid Tie Solar Inverter

Dear Sir/Madam,

Kindly Find below summary test report:

Product Name:	Grid Tie Solar Inverter
Make:	Selec Controls Pvt. Ltd.
Model No.:	GTI002WLM1PW2
Sr. No.:	C1-022406N07-1213
Product Standard:	IEC 62109-1 Edition 1.0 2010-04 & IEC 62109-2 Edition 1.0 2011-06
Reference Specification	EN 61000-6-3, EN IEC 61000-6-1 (IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)
Date of Conducting Test:	27/AUG/2024 to 30/AUG/2024

Sr. No.	Test Name	Test standard	Test Levels	Passing Criteria
1	Electrostatic Discharge Test	IEC 61000-4-2	For Contact Discharge: 2 (± 1 kV) For Air Discharge: 3 (± 2 kV)	A
2	Electrical Fast Transient Test	IEC 61000-4-4	Power Line: 3 (± 2 kV)	A
3	RF Conducted Susceptibility Test	IEC 61000-4-6	Power Line: 2 (3 V _{RMS})	A
4	Power Frequency Magnetic Field Test	IEC 61000-4-8	2 (3 A/m)	A
5	Voltage Dips and Interruption Test	IEC 61000-4-11	Class 3	A

Evaluation of Test Results :

- A : No degradation in performance or loss during and after the test.
- B : Allowable temporary degradation during the test. Self recovers after the test. No change in operating state or stored data is allowed.
- C : Temporary loss of function or degradation in performance the correction of which requires Operator's interventions.
- D : EUT malfunctions and fails to recover.

Note : Declaration for the sample Test Data is valid only for the sample submitted by the customer on the date: 27/AUG/2024



Issued Date: 30/AUG/2024

VINJUDA
CHETAN
VALJI

Reviewed & issued by : Chetan Vinjuda
Designation : Technical Manager



TEST REPORT

ULR No.:	TC132782400000594F		Page 1 of 11	
Test Report No.:	TR120240820010		Issue Date:	20/08/2024
Discipline:	Electronics Testing		Group:	EMI/EMC Test Facility
Name of Customer (Report Issued to):	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Name of Manufacturer:	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Item Description:	Said to be, "2.5KW 1PH Solar Inverter, Rating: 2.5KW, Trademark: SELEC".			
Sample Condition:	Fit for Testing			
Identification:	Model:	GTI002WLM1PW2	Serial No.:	C022406N02-1208
			Sample Code:	Nil
Sample Deposited/Collected by:	Customer			
Reference no.	Nil		Date:	09/08/2024
Job Order No.:	BTH-R1/EE/240809/7		Date of receipt:	09/08/2024
Date(s) of performance of tests:	12/08/2024 to 16/08/2024			
Laboratory Name and Address:	BHARAT TEST HOUSE PVT. LTD. 1474, HSIIDC Indl. Estate, Rai, Distt. Sonapat-131001 Haryana.		 Scan this QR Code to verify the Report	
Test specification(s):	IEC 61000-6-3:2020/ CISPR 32:2015+A1:2019/ IEC 61000-4-3:2020/ IEC 61000-4-6:2013			
General Environmental Conditions:	Temp: 25 ± 10°C, Relative Humidity: 55 ± 10%, Atmospheric Pressure: 98 kPa			
Result:	The sample confirms the relevant test specification as per below report			
Supplementary Information:	- Deviation from the test methods as prescribed in relevant Specification/Work Instructions: Nil The information supplied by the customer may affect the validity of results reported as per standard requirement. - Statement of Conformity is required by the customer. - Authorised signatory is responsible for the results reported by the lab for the requested activity by the customer except for the information provided by the customer.			
Abbreviations:	IEC: International Electro technical Commission, SAC: Semi Anechoic Chamber, GRP: Ground Reference Plane, EUT: Equipment Under Test, AE: Auxiliary Equipment, CDN: Coupling/Decoupling Network, L: Line, N: Neutral, PE: Protective Earth, NA: Not Applicable			
Remarks:	1. Test at Sr. No.2.2, 2.3 &2.4 have been conducted under location 1668. 2. The test(s) have been carried out as per customer request only. 3. The report has been generated and verified digitally. The report is related to the test sample submitted.			
Tested by:	Reviewed by:	Authorized by:		
				
Sonu Kumar	Vaibhav Gupta	Vaibhav Gupta		
Testing Engineer	Authorized Signatory	Authorized Signatory		
Date: 20/08/2024	Date: 20/08/2024	Date: 20/08/2024		

The NABL Accreditation and the BIS recognition claimed is valid only for the scope of accreditation and recognition as on date of this report, as mentioned on NABL and BIS Website respectively.

BTHPL/7.2/01


TEST REPORT

ULR No.:	TC132782400000601F			Page 1 of 10
Test Report No.:	TR120240820018	Issue Date:	20/08/2024	
Discipline:	Electrical Testing	Group:	Power Supplies & Stabilizers	
Name of Customer (Report Issued To):	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Name of Manufacturer:	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Item Description:	2.5kW 1PH Solar Inverter			
Sample Condition:	Fit for testing			
Identification:	Model Tested:	GTI002WLM1PW2	Serial No.:	Nil
	Series Model:	GTI002WLM1PNS2	Sample Code:	N/A
Sample Deposited/Collected by:	Customer			
Reference no.	Nil	Date:	12/07/2024	
Job Order No.:	BTH-R1/EL/240719/5	Date of receipt:	19/07/2024	
Date(s) of performance of tests:	12/08/2024 to 20/08/2024			
Laboratory Name and Address:	BHARAT TEST HOUSE PVT. LTD. 1474, HSIIDC Indl. Estate, Rai, Distt. Sonapat-131029 Haryana.			 Scan this QR Code to verify the Report
Test Location:	At lab			
Test specification(s):	IS/IEC 61683: 1999			
General Environmental Conditions:	Temperature: 27±2°C, Relative Humidity: 65±5%RH			
Result:	The Sample confirms the relevant test specification as per below report.			
Supplementary Information:	- Deviation from the test methods as prescribed in relevant Specification/Work Instructions: Nil - The information supplied by the customer may affect the validity of results reported as per standard requirement.			
Remarks:	1. This report is supplementary to earlier Test Report No. TR120240808005 dated 08/08/2024 issued by Bharat Test House Pvt Ltd. 2. Series Model: GTI002WLM1PNS2; Brand/Trademark:  is in the same product family and can be undertaken in series with Model Tested: GTI002WLM1PW2; Trademark:  . All the tests have been performed on Model: GTI002WLM1PW2 (worst case). 3. The test(s) have been carried out as per customer request only. 4. The report has been generated and verified digitally. This report is related to the sample submitted.			
Tested by:	Reviewed by:	Authorised by:		
				
R.K. Singh	Vaibhav Gupta	Vaibhav Gupta		
Testing Engineer	Authorized Signatory	Authorized Signatory		
Date: 20/08/2024	Date: 20/08/2024	Date: 20/08/2024		



TEST REPORT

ULR No.:	TC1327824000000552F		Page 1 of 7	
Test Report No.:	TR120240808005	Issue Date:	08/08/2024	
Discipline:	Electrical Testing	Group:	Power Supplies & Stabilizers	
Name of Customer (Report Issued To):	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Name of Manufacturer:	Selec Controls Private Limited EL-27/1, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-400710, Maharashtra, India			
Item Description:	Said to be, "2.5kW 1PH Solar Inverter, Brand/Trademark: SELEC ".			
Sample Condition:	Fit for testing			
Identification:	Model Tested:	GTI002WLM1PW2	Serial No.:	Nil
	Series Model:	GTI002WLM1PNS2	Sample Code:	N/A
Sample Deposited/Collected by:	Customer			
Customer Reference no.	Nil	Date:	12/07/2024	
Job Order No.:	BTH-R1/EL/240719/5	Date of receipt:	19/07/2024	
Date(s) of performance of tests:	02/08/2024 to 08/08/2024			
Laboratory Name and Address:	BHARAT TEST HOUSE PVT. LTD. 1474, HSIIDC Indl. Estate, Rai, Distt. Sonapat-131029 Haryana.		 Scan this QR Code to verify the Report	
Test Location:	At lab			
Test specification(s):	IEC 61727: 2004			
General Environmental Conditions:	Temperature: 27±2°C, Relative Humidity: 65±5%RH			
Result:	The Sample confirms the relevant test specification as per below report.			
Supplementary Information:	- Deviation from the test methods as prescribed in relevant Specification/Work Instructions: Nil - The information supplied by the customer may affect the validity of results reported as per standard requirement.			
Remarks:	1. Series Model: GTI002WLM1PNS2; Brand/Trademark: SELEC is in the same product family and can be undertaken in series with Model Tested: GTI002WLM1PW2; Brand/Trademark: SELEC . All the tests have been performed on Model: GTI002WLM1PW2 (worst case). 2. The test(s) have been carried out as per customer request only. 3. The report has been generated and verified digitally.			
<i>This report is related to the sample submitted.</i>				
Tested by:	Reviewed by:	Authorised by:		
				
R.K. Singh	Vaibhav Gupta	Vaibhav Gupta		
Testing Engineer	Authorized Signatory	Authorized Signatory		
Date: 08/08/2024	Date: 08/08/2024	Date: 08/08/2024		



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



Discipline : Electronics, Group: Miscellaneous Products

ULR – TC537524100004808F

Test Report No.: 249193240718KUNIT7000	Page 1 of 17
Issue Date: 02/08/2024	

Issued to:	Selec Controls Pvt. Ltd. EL-27/1, EL-27/1PT, EL-27/2 AND EL-27/3, TTC Industrial Area, Electronic Zone, MIDC, Mahape, Navi Mumbai 400710 INDIA		
Test item:	PV GRID INVERTER		
Identification:	Lead model: GTI002WLM1PW2 Series model: GTI002WLM1PNS2	Serial No.:	C022407N07-001
Receipt No.:	5240718KUNIT007	Date of receipt:	18/07/2024
Testing laboratory and its address:	Delhi Test House Plot No-50, Phase-IV, Sector-57, HSIIDC Kundli-131028, Haryana, India		
Test specification:	IEC 62891:2020		
Test Result:	The test item Passed/Failed the test specification		
Other Aspects:	PV GRID INVERTER model: GTI002WLM1PW2 has been tested as per IEC 62891:2020 complies to all the applicable parameters. PV GRID INVERTER model: GTI002WLM1PNS2 is covered in series formation with lead model: GTI002WLM1PW2 as per MNRE guidelines.		
This test report relates to the test sample submitted and list of documents attached.			

Tested by:	Approved by/Authorized Signatory:	Issued by:
 Sumanshu Kumar (Sr. Test Engineer)	 Ashish Goel (Director)	 Pawan Rohilla (Customer Executive)
(Name / Designation)	(Name / Designation)	(Name / Designation)
Date: 02/08/2024	Date: 02/08/2024	Date: 02/08/2024



DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529