



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
Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002
दूरभाष/Phone: +91-11-23230856/2323010131/23233375/23239402
ई-मेल/E-mail: registration@bis.gov.in
वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: REGISTRATION /CRS-2021-6244/R-71018015

Dated: 2025-10-10
02:12:09

RENEWAL ID : 36480

Subject : RENEWAL OF LICENCE R-71018015 AS PER IS 16221 (Part 2):2015/IEC 62109-2 :2011 & IS 16169 :2014/IEC 62116 :2008

Rishabh Instruments Pvt. Ltd.
F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK
MAHARASHTRA, India, 422007



Dear Sir/Madam,

With reference to your online application dated 10-10-2025 for renewal of the above mentioned licence; this is to inform you that the same has been renewed from **10-11-2025** to **09-11-2030**.

It may be noted that the said licence granted under clause (b) of sub section (2) of section 13 of the Act shall *expire* at the end of the period for which it is granted unless renewed or its renewal is deferred. You are, therefore, requested to apply for next renewal to BIS within three months before the expiration of the licence.

Thanking you.

Yours faithfully,

Registration Department
Bureau of Indian Standards,
9, Bahadur Shah Zafar Marg,
New Delhi-110002.
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
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वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2021-6244/R-71018015

Dated:29-Jan-2026

Subject : Revision of IS 16221 (Part 2):2015/IEC 62109-2 :2011 & IS 16169 :2014/IEC 62116 :2008

Manufacturing Unit :	Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK, MAHARASHTRA, India-422007	
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Dear Sir,

This has reference to your request for Revision of Standard **SR_1315** for the product **Utility-Interconnected Photovoltaic Inverters** as per **IS 16221 (Part 2):2015/IEC 62109-2 :2011 & IS 16169 :2014/IEC 62116 :2008** in Licence No. **R-71018015** already granted to you which is valid upto **09-Nov-2030**. It is intimated that the changeover to revised Standard i.e. **IS 16169: 2019/IEC 62116: 2014 & IS 17980: 2022/ IEC 62891:2020** for the Models as per details given below have approved w.e.f. **29-Jan-2026**:

Product Category	Utility-Interconnected Photovoltaic Inverters
Product Name	Utility-Interconnected Photovoltaic Inverters
Models :	[Rishabh RADIUS->NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX, NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX, NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX, NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX]
Factory Address	F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK, MAHARASHTR A, India-422007

1. Other terms and conditions of the Registration Scheme remain the same.
2. 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)

Telefax:+91-11-2323 0856

E-mail:registration@bis.gov.in

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भारतीय मानक ब्यूरो

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BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
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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 2021-6244/R-71018015

Date:18-05-2023

Inclusion Id: 67386

Subject :Inclusion of Additional Model(s)

MANUFACTURING UNIT :	Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK MAHARASHTRA,India-422007 anjali.deore@rishabh.co.in 9342411534	
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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 16221 (Part 2) : 2015 / IEC 62109-2 : 2011,IS 16169 : 2014 / IEC 62116 : 2008 in Licence No. R-71018015** already granted to you which is valid upto 09-11-2023.

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-71018015 w.e.f. 18-05-2023:**

Product Category	Utility-Interconnected Photovoltaic Inverters
Product Name	Utility-Interconnected Photovoltaic Inverters
IS No.	IS 16221 (Part 2) : 2015 / IEC 62109-2 : 2011,IS 16169 : 2014 / IEC 62116 : 2008
Brand (As Declared by Manufacturer):	Rishabh RADIUS,Rishabh RADIUS
Inclusion of Additional Models (w.e.f. 18-05-2023)	NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX,NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX,NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX,NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX,NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX,NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX
Factory Address	F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK MAHARASHTRA,India-422007

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,
(Sonali Gupta)
Scientist-B
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

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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.

National Institute of Solar Energy

(An autonomous Institute of Ministry of New & Renewable Energy)

Gurugram-Faridabad Road, Gwalpahari, Gurugram-122003

Ph. 0124-2853110 (CSC), Email id: csc.nise.mnre@gmail.com

Test Report

1.	Service Request No.	02/1922
2.	Requested By (Name & Address of the organization)	M/S RISHABH INSTRUMENTS PVT. LTD. F-31, MIDC, SATPUR, NASHIK, MAHARASHTRA, PIN-422007
3.	Details of the test item	
	a) Nomenclature	String Inverter (PV + Grid Export)
	b) Manufactured By	M/S RISHABH INSTRUMENTS PVT. LTD.
	c) Model / Type No.	<ul style="list-style-type: none"> • (Representative Model) NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX • (Series Model) NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX, NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX Manufacturer declaration at Annexure-I
	d) Model difference provided	Yes
	e) Model difference verified as per MNRE guide line	Yes
	f) Tested Serial Nos.	RI-2210000001, RI-2210000002, RI-2210000003 & RI-2210000004
	g) Trade Mark	
	h) Testing parameters	<ul style="list-style-type: none"> • At NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX, NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX & NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX ✓ Inverter efficiency test - as per IS/IEC 61683 "Photovoltaic systems -Power conditioners -Procedure for measuring efficiency"

Tested By *Kambal*

Date: *8/12/2022*

Authorized Signatory *P/Som*

Date: *8/12/2022*



Issued By *[Signature]*

Date: *9/12/2022*

		<ul style="list-style-type: none"> At NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX, (Representative Model) <ul style="list-style-type: none"> ✓ MPPT efficiency test and overall system efficiency as per EN 50530 ✓ Islanding test –as per IS 16169/ IEC 62116 “Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters” ✓ Grid parallel operation test - as per CEI IEC 61727 “Photovoltaic (PV) systems -Characteristics of the utility interface” ✓ Environmental test as per IEC 60068-2 (1, 2, 14, 30)
4.	Date of samples receipt	07/11/2022
5.	Condition of samples on receipt	Good
6.	Date of starting of test	15/11/2022
7.	Date of Completion of Tests	5/12/2020
8.	Date of issue of test report	08/12/2022
9.	Name and location of the testing laboratory	Power Electronics Laboratory, Aditya Bhawan, NISE, Gurugram

MAJOR EQUIPMENTS USED

S.No.	Equipment Used	Model	Calibration Agency/Report Reference	Last calibration
1	Solar array simulator	ETS600*25D-PVE	Calibrated from Belz(N)	03/01/2022
2	Solar array simulator	62000H	Calibrated from Belz Calibration Lab	03/01/2022
3	Power Analyzer	WT 1800	Calibrated from Anshankan India Pvt ltd	31/12/2021
4	Digital Oscilloscope, Keysight	DSOX3034T	Calibrated from Anshankan India Pvt ltd	30/12/2021
5	AC power source	61845	Calibrated from Belz Calibration Lab	05/01/2012
6	RLC Load	ACLT-3820H	Calibrated from Belz Calibration Lab	03/01/2022

NOTE: 1

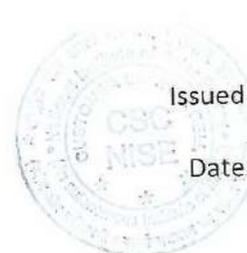
1. This test report refers only to the particular items submitted for testing as per specifications/requirements stipulated by the customer.
2. The results reported in the Test Report are valid at the time of and under the stipulated conditions of measurements.
3. The test report shall not be reproduced except in full unless written permission for the publication of an approved abstract has been obtained from the Director General, National Institute of Solar Energy.
4. The client is requested to collect the tested sample back within 30 days from the date of issue of the report

Kamblesh
Tested By

Date... 8/12/2022

B/Bom
Authorized Signatory

Date... 8/12/2022



Issued By

Date.....

G. J. J.
09/12/2022

Annexure-I

Copy of Marking Plates

Lead Tested Model No.
NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX

 Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASHIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in	
Model Name	NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX
Version	01.03.02.02
U DC max	1100V
I DC max	2*25.0A
Isc max	2*32A
U DC range	175-950V
V AC nom	3/N/PE 239V/415V
f AC nom	50/60Hz
P AC nom	20kW/22kVA
Power factor	0.8 cap. - 0.8 ind.
I AC nom	28.1Arms
I AC max	31.8Arms
Protection Degree	IP66
Protection Class	1
Ambient Temperature	-25°C..... +60°C
BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-020KXMTFBXXXX SERIAL NUMBER: RI-2210000001	



Series Model No.
NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX,

 Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASHIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in	
Model Name	NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX
Version	01.03.02.02
U DC max	1100V
I DC max	2*25.0A
Isc max	2*32A
U DC range	175-950V
V AC nom	3/N/PE 239V/415V
f AC nom	50/60Hz
P AC nom	18kW/19.8kVA
Power factor	0.8 cap. - 0.8 ind.
I AC nom	26.1Arms
I AC max	28.6Arms
Protection Degree	IP66
Protection Class	1
Ambient Temperature	-25°C..... +60°C
BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-018KXMTFBXXXX SERIAL NUMBER: RI-221000000X	



Series Model No.
NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX

 Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASHIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in	
Model Name	NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX
Version	01.03.02.02
U DC max	1100V
I DC max	1*25.0A/2*15.0A
Isc max	1*32A/2*20A
U DC range	175-950V
V AC nom	3/N/PE 239V/415V
f AC nom	50/60Hz
P AC nom	15kW/16.5kVA
Power factor	0.8 cap. - 0.8 ind.
I AC nom	21.7Arms
I AC max	23.9Arms
Protection Degree	IP66
Protection Class	1
Ambient Temperature	-25°C..... +60°C
BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-015KXMTFBXXXX SERIAL NUMBER: RI-221000000X	



Representative Tested Model No.
NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX

 Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASHIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in	
Model Name	NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX
Version	01.03.02.02
U DC max	1100V
I DC max	1*25.0A/2*15.0A
Isc max	1*32A/2*20A
U DC range	175-950V
V AC nom	3/N/PE 239V/415V
f AC nom	50/60Hz
P AC nom	12kW/13.2kVA
Power factor	0.8 cap. - 0.8 ind.
I AC nom	17.3Arms
I AC max	19.2Arms
Protection Degree	IP66
Protection Class	1
Ambient Temperature	-25°C..... +60°C
BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-012KXMTFBXXXX SERIAL NUMBER: RI-2210000002	



Tested By *Komal*

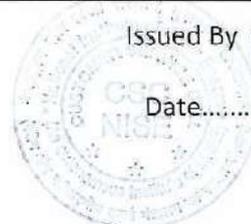
Date..... 8/12/2022

Authorized Signatory *P. B. Som*

Date... 8/12/2022

Issued By *G. S. J.*

Date..... 09/12/2022



<p>Series Model No. NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX</p> <p>Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in</p> <table border="1"> <tr><td>Model Name</td><td>NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX</td></tr> <tr><td>Version</td><td>01.03.02.02</td></tr> <tr><td>U DC max</td><td>1100V</td></tr> <tr><td>I DC max</td><td>1*25.0A/2*15.0A</td></tr> <tr><td>Isc max</td><td>1*32A/2*20A</td></tr> <tr><td>U DC range</td><td>175-950V</td></tr> <tr><td>V AC nom</td><td>3/N/PE 239V/415V</td></tr> <tr><td>f AC nom</td><td>50/60Hz</td></tr> <tr><td>P AC nom</td><td>10kW/11kVA</td></tr> <tr><td>Power factor</td><td>0.8 cap. - 0.8 Ind.</td></tr> <tr><td>I AC nom</td><td>14.4Arms</td></tr> <tr><td>I AC max</td><td>15.9Arms</td></tr> <tr><td>Protection Degree</td><td>IP66</td></tr> <tr><td>Protection Class</td><td>1</td></tr> <tr><td>Ambient Temperature</td><td>-25°C..... +60°C</td></tr> </table> <p>BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-010KXMTFBXXXX SERIAL NUMBER: RI-221000000X CE</p>	Model Name	NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX	Version	01.03.02.02	U DC max	1100V	I DC max	1*25.0A/2*15.0A	Isc max	1*32A/2*20A	U DC range	175-950V	V AC nom	3/N/PE 239V/415V	f AC nom	50/60Hz	P AC nom	10kW/11kVA	Power factor	0.8 cap. - 0.8 Ind.	I AC nom	14.4Arms	I AC max	15.9Arms	Protection Degree	IP66	Protection Class	1	Ambient Temperature	-25°C..... +60°C	<p>Series Model No. NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX</p> <p>Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in</p> <table border="1"> <tr><td>Model Name</td><td>NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX</td></tr> <tr><td>Version</td><td>01.03.02.02</td></tr> <tr><td>U DC max</td><td>1100V</td></tr> <tr><td>I DC max</td><td>1*25.0A/2*15.0A</td></tr> <tr><td>Isc max</td><td>1*32A/2*20A</td></tr> <tr><td>U DC range</td><td>175-950V</td></tr> <tr><td>V AC nom</td><td>3/N/PE 239V/415V</td></tr> <tr><td>f AC nom</td><td>50/60Hz</td></tr> <tr><td>P AC nom</td><td>9kW/9.9kVA</td></tr> <tr><td>Power factor</td><td>0.8 cap. - 0.8 Ind.</td></tr> <tr><td>I AC nom</td><td>13.0Arms</td></tr> <tr><td>I AC max</td><td>14.3Arms</td></tr> <tr><td>Protection Degree</td><td>IP66</td></tr> <tr><td>Protection Class</td><td>1</td></tr> <tr><td>Ambient Temperature</td><td>-25°C..... +60°C</td></tr> </table> <p>BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-009KXMTFBXXXX SERIAL NUMBER: RI-221000000X CE</p>	Model Name	NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX	Version	01.03.02.02	U DC max	1100V	I DC max	1*25.0A/2*15.0A	Isc max	1*32A/2*20A	U DC range	175-950V	V AC nom	3/N/PE 239V/415V	f AC nom	50/60Hz	P AC nom	9kW/9.9kVA	Power factor	0.8 cap. - 0.8 Ind.	I AC nom	13.0Arms	I AC max	14.3Arms	Protection Degree	IP66	Protection Class	1	Ambient Temperature	-25°C..... +60°C
Model Name	NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX																																																												
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I AC max	15.9Arms																																																												
Protection Degree	IP66																																																												
Protection Class	1																																																												
Ambient Temperature	-25°C..... +60°C																																																												
Model Name	NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX																																																												
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I DC max	1*25.0A/2*15.0A																																																												
Isc max	1*32A/2*20A																																																												
U DC range	175-950V																																																												
V AC nom	3/N/PE 239V/415V																																																												
f AC nom	50/60Hz																																																												
P AC nom	9kW/9.9kVA																																																												
Power factor	0.8 cap. - 0.8 Ind.																																																												
I AC nom	13.0Arms																																																												
I AC max	14.3Arms																																																												
Protection Degree	IP66																																																												
Protection Class	1																																																												
Ambient Temperature	-25°C..... +60°C																																																												
<p>Representative Tested Model No. NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX</p> <p>Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in</p> <table border="1"> <tr><td>Model Name</td><td>NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX</td></tr> <tr><td>Version</td><td>01.03.02.02</td></tr> <tr><td>U DC max</td><td>1100V</td></tr> <tr><td>I DC max</td><td>1*25.0A/2*15.0A</td></tr> <tr><td>Isc max</td><td>1*32A/2*20A</td></tr> <tr><td>U DC range</td><td>175-950V</td></tr> <tr><td>V AC nom</td><td>3/N/PE 239V/415V</td></tr> <tr><td>f AC nom</td><td>50/60Hz</td></tr> <tr><td>P AC nom</td><td>8kW/8.8kVA</td></tr> <tr><td>Power factor</td><td>0.8 cap. - 0.8 Ind.</td></tr> <tr><td>I AC nom</td><td>11.5Arms</td></tr> <tr><td>I AC max</td><td>12.7Arms</td></tr> <tr><td>Protection Degree</td><td>IP66</td></tr> <tr><td>Protection Class</td><td>1</td></tr> <tr><td>Ambient Temperature</td><td>-25°C..... +60°C</td></tr> </table> <p>BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-008KXMTFBXXXX SERIAL NUMBER: RI-2210000003 CE</p>	Model Name	NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX	Version	01.03.02.02	U DC max	1100V	I DC max	1*25.0A/2*15.0A	Isc max	1*32A/2*20A	U DC range	175-950V	V AC nom	3/N/PE 239V/415V	f AC nom	50/60Hz	P AC nom	8kW/8.8kVA	Power factor	0.8 cap. - 0.8 Ind.	I AC nom	11.5Arms	I AC max	12.7Arms	Protection Degree	IP66	Protection Class	1	Ambient Temperature	-25°C..... +60°C	<p>Series Model No. NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX</p> <p>Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in</p> <table border="1"> <tr><td>Model Name</td><td>NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX</td></tr> <tr><td>Version</td><td>01.03.02.02</td></tr> <tr><td>U DC max</td><td>1100V</td></tr> <tr><td>I DC max</td><td>1*15.0A/2*15.0A</td></tr> <tr><td>Isc max</td><td>1*20A/2*20A</td></tr> <tr><td>U DC range</td><td>175-950V</td></tr> <tr><td>V AC nom</td><td>3/N/PE 239V/415V</td></tr> <tr><td>f AC nom</td><td>50/60Hz</td></tr> <tr><td>P AC nom</td><td>7kW/7.7kVA</td></tr> <tr><td>Power factor</td><td>0.8 cap. - 0.8 Ind.</td></tr> <tr><td>I AC nom</td><td>10.1Arms</td></tr> <tr><td>I AC max</td><td>11.1Arms</td></tr> <tr><td>Protection Degree</td><td>IP66</td></tr> <tr><td>Protection Class</td><td>1</td></tr> <tr><td>Ambient Temperature</td><td>-25°C..... +60°C</td></tr> </table> <p>BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-007KXMTFBXXXX SERIAL NUMBER: RI-221000000X CE</p>	Model Name	NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX	Version	01.03.02.02	U DC max	1100V	I DC max	1*15.0A/2*15.0A	Isc max	1*20A/2*20A	U DC range	175-950V	V AC nom	3/N/PE 239V/415V	f AC nom	50/60Hz	P AC nom	7kW/7.7kVA	Power factor	0.8 cap. - 0.8 Ind.	I AC nom	10.1Arms	I AC max	11.1Arms	Protection Degree	IP66	Protection Class	1	Ambient Temperature	-25°C..... +60°C
Model Name	NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX																																																												
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Tested By *Kambal*
Date..... 8/12/2022

Authorized Signatory *Bzon*
Date..... 8/12/2022

Issued By *Dr. Jay*
Date..... 09/12/2022



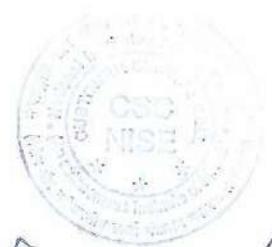
Representative Tested Model No. NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX		Series Model No. NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX	
 <p>Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASHIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in</p>		 <p>Rishabh Instruments Pvt. Ltd. F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR, NASHIK, NASHIK, MAHARASHTRA, India - 422007 Ph: +91 2532202019 Email: inverters@rishabh.co.in</p>	
Model Name	NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX	Model Name	NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX
Version	01.03.02.02	Version	01.03.02.02
U DC max	1100V	U DC max	1100V
I DC max	1*15.0A/2*15.0A	I DC max	1*15.0A/2*15.0A
Isc max	1*20A/2*20A	Isc max	1*20A/2*20A
U DC range	175-950V	U DC range	175-950V
V AC nom	3/N/PE 239V/415V	V AC nom	3/N/PE 239V/415V
f AC nom	50/60Hz	f AC nom	50/60Hz
P AC nom	3kW/3.3kVA	P AC nom	5kW/5.5kVA
Power factor	0.8 cap. - 0.8 ind.	Power factor	0.8 cap. - 0.8 ind.
I AC nom	4.3Arms	I AC nom	7.2Arms
I AC max	4.7Arms	I AC max	7.9Arms
Protection Degree	IP66	Protection Degree	IP66
Protection Class	1	Protection Class	1
Ambient Temperature	-25°C..... +60°C	Ambient Temperature	-25°C..... +60°C
BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-003KXMTFBXXXX SERIAL NUMBER: RI-221000000X CE		BRAND NAME : Rishabh RADIUS PART NUMBER : RNEO-005KXMTFBXXXX SERIAL NUMBER: RI-2210000004 CE	



Tested By *Kamlesh*
Date... *8/12/2022*

Authorized Signatory *Bsom*
Date... *8/12/2022*

Issued By *[Signature]*
Date..... *09/12/2022*



13625/2022/LAB

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MANUFACTURER DECLARATION

Manufacturer: Rishabh Instruments Pvt.Ltd.
F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR
NASHIK, NASIK, MAHARASHTRA, India - 422007

Product Group: Grid Tie PV inverter

Models:

NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX,
NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX
NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX
NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX
NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX
NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX
NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX
NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX
NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX,
NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX

This is to certify that all the models stated above belongs to the NEO/PVSA/APV-S series of the inverter. The series complies to the guidelines given by the MNRE for series approval of solar PV Inverter, dated:26.08.2019.


Signature:

Amol. A. Deshmukh
(Head - R&D)

Place,Date: Nashik,23rd Sep 2022

RISHABH
INSTRUMENTS
PVT. LTD.
F-31, MIDC, Satpur,
Nashik-422007, India.
+91 253 2202202/028

info@rishabh.co.in
www.rishabh.co.in

Tested By

Date.....8/12/2022

Authorized Signatory

Date...8/12/2022

Issued By

Date.....




09/12/2022



STATEMENT OF COMPLIANCE

Applicant: Rishabh Instruments Pvt. Ltd.
F31 MIDC, Satpur, Near Ceat Tyres, Satpur,
Nashik, Nashik Maharashtra,
India - 422007

Product: Utility-Interconnected Photovoltaic Inverters.

Models covered:	NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX (Representative Model) NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX (Series Models)
Standard reference:	Testing of Utility-Interconnected Photovoltaic Inverters as per IEC 62116 Edition 2.0:2014-02. The representative sample of above stated model tested as per IEC 62116 Edition 2.0:2014-02. This declaration should be read in conjunction with issued Test report.
Test Report No	4790479988-NABL-S1-R1
Verdict:	Pass

Sincerely Yours,

Appanda
raj S V

Digitally signed by
Appandaraj S V
Date: 2023.03.31
11:07:18 +05'30'

Appandaraj S V

**Project Engineer
UL India Private Limited**

UL India Private Limited
Registered Office: Kalyani Platina - Block I, 3rd Floor
No. 24, EPIP Zone, Phase II, Whitefield, Bangalore - 560066, India
T: 91.80.4138.4400 / F: 91.80.2841.3759 / W: ul.com
CIN: U74200KA1997PTC023189

Disclaimer: This document is digitally signed



STATEMENT OF COMPLIANCE

Applicant: Rishabh Instruments Pvt. Ltd.
F31 MIDC, Satpur, Near Ceat Tyres, Satpur,
Nashik, Nashik Maharashtra,
India - 422007

Product: Power Inverters for use in Photovoltaic Power Systems.

Models covered:	NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX (Representative Model) NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX (Series Models)
Standard reference:	Testing of Power Inverters for use in photovoltaic Power System (Grid Tie Inverter) as per IEC 62109-1:2010 & IEC 62109-2:2011. The representative sample of above stated model tested as per IEC 62109-1:2010 and IEC 62109-2:2011. This declaration should be read in conjunction with issued Test report.
Test Report No	4790479988-NABL-S2-R1
Verdict:	Pass

Sincerely Yours,

Appand
araj S V

Digitally signed
by Appandaraj S V
Date: 2023.03.31
10:59:38 +05'30'

Appandaraj S V

Project Engineer
UL India Private Limited

UL India Private Limited
Registered Office: Kalyani Platina - Block I, 3rd Floor
No. 24, EPIP Zone, Phase II, Whitefield, Bangalore - 560066, India
T: 91.80.4138.4400 / F: 91.80.2841.3759 / W: ul.com
CIN: U74200KA1997PTC023189

Disclaimer: This document is digitally signed



QVC CERT

STANDARDIZING THE WORLD

2-B, Civil Lines, Yukti Business Centre, Near Old Session Court,
Ambala City - 134003, Haryana, India

CERTIFICATE OF CONFORMITY

No. QVC/CE/LVD/2023-24/225

Applicant & Manufacturer: **RISHABH INSTRUMENTS LIMITED**

Address: **F31 MIDC, SATPUR, NEAR CEAT TYRES, SATPUR NASHIK, NÀSIK - 422007, MAHARASHTRA, INDIA**

Product(s): **PHOTOVOLTAIC INVERTER(s)**

Model(s): **APV-S-10k-AE-TL-1/2SFXX-KA, APV-S-12k-AE-TL-1/2SFXX-KA, APV-S-15k-AE-TL-2SFXX-KA, APV-S-18k-AE-TL-2SFXX-KA, APV-S-20k-AE-TL-2/3SFXX-KA, APV-S-25k-AE-TL-2SFXX-KA, APV-S-34k-AE-TL-2SFXX-KA, APV-S-50k-AE-TL-3SFXX-KA, NEO/PVSA/APV-S-03K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-05K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-07K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-08K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-09K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-10K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-12K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-15K-AE-TL-1/2MSFXXXX, NEO/PVSA/APV-S-18K-AE-TL-2MSFXXXX, NEO/PVSA/APV-S-20K-AE-TL-2MSFXXXX**

Applicable Directive(s): **LOW VOLTAGE DIRECTIVE 2014/35/EU
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2014/30/EU**

Applicable Standard(s): **IEC/EN 61000-6-1:2016, IEC/EN 61000-6-2:2016, IEC/EN 61000-6-3:2020, IEC/EN 61000-6-4:2018, IEC/EN 61000-3-2:2018, IEC/EN 61000-3-3:2013, IEC/EN 61000-3-4:2013, IEC/EN 61000-3-11:2017, IEC/EN 61000-3-12:2011 & IEC 60255-27:2023**

Technical Doc. Reference: **TECHNICAL CONSTRUCTION FILE: TCF/RIPL/LVD/EMC-01**

Based on successful review of technical construction file documentation of the above-mentioned products, QVC hereby confirms, conformity of the above-mentioned product(s) with the requirements of **Low Voltage Directive 2014/35/EU** and **Electromagnetic Compatibility Directive 2014/30/EU**.

The product liability rests with the manufacturer or his representative in accordance with applicable Directives and standards, after fulfilling of the relevant EU legislation requirements, the manufacturer shall affix to each device of the above referenced models, the CE-Mark according to this example:



Issued Date: 18/08/2023

Expiry Date: 17/08/2026



Authorized Signatory



TEST REPORT

Page No.: 01 of 04

TEST REPORT NO.: TEST/22-23/TR/106

ULR NO. TC544822000000195F

Date: 04.09.2022

1.0 Name and address of customer	: Rishabh Instruments Pvt. Ltd. F-31, MIDC Satpur, Nashik – 422 007.								
2.0 Customer letter/Ref No./DC No. Date	: 3524 : 22.08.2022.								
3.0 Date of receipt and Condition Of test sample	: 22.08.2022. Satisfactory.								
4.0 Description of test sample	: TSRF No. : TEST/22-23/TSRF/64								
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Part Name</th> <th>Qty.</th> <th>NEC Sample ID No.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NEO/PVSA/APV-S20K-AE-TL-2MSF XXXX. Sr. No.: RI-2200000005</td> <td>01</td> <td>TEST/22-23/ID/105</td> </tr> </tbody> </table>	Sr. No.	Part Name	Qty.	NEC Sample ID No.	1	NEO/PVSA/APV-S20K-AE-TL-2MSF XXXX. Sr. No.: RI-2200000005	01	TEST/22-23/ID/105
Sr. No.	Part Name	Qty.	NEC Sample ID No.						
1	NEO/PVSA/APV-S20K-AE-TL-2MSF XXXX. Sr. No.: RI-2200000005	01	TEST/22-23/ID/105						
5.0 Test method	: IEC 60529:2019.								
6.0 Date of testing	: 22.08.2022 – 23.08.2022.								
7.0 Details of test	: IP – 66 Test.								
8.0 Witnessed By	: --								
9.0 Enclosure	: --								

Test Result: The Sample Conforms to the requirements of IP 66 test as per IEC 60529: 2019.

- Note:**
1. This report relates only to the particular sample tested at NEC, Nashik.
 2. This report cannot be reproduced in part under any circumstances.
 3. Publication of this report requires prior permission in writing from CEO, NEC.
 4. Only tests asked for by the customer have been carried out.
 5. In case of any dispute, Nashik will be the exclusive jurisdiction & shall be construed as where the cause has arise.
 6. Any Error in this report should be brought in our notice within 30 days from the date Of issue of this report

Caution NEC is not responsible for the authenticity of photocopied or reproduced test reports.
NEC provides support to customers for verification of the authenticity of test reports issued by NEC.

Test results are as per enclosed sheets


Prepared By:
Vishal Kale
(Testing Engineer)


Checked By:
Rahul Golesar
(General manager)




Authorized By:
Rahul Golesar
(General manager)

QR/NEC/TC/01

Services Offered : Testing / Calibration , CNC Machining Center, RPT, CMM, Metallurgical Lab,
Electrical Testing, Environmental Testing, Heat Treatment, Seminar Halls & Auditorium Etc.,