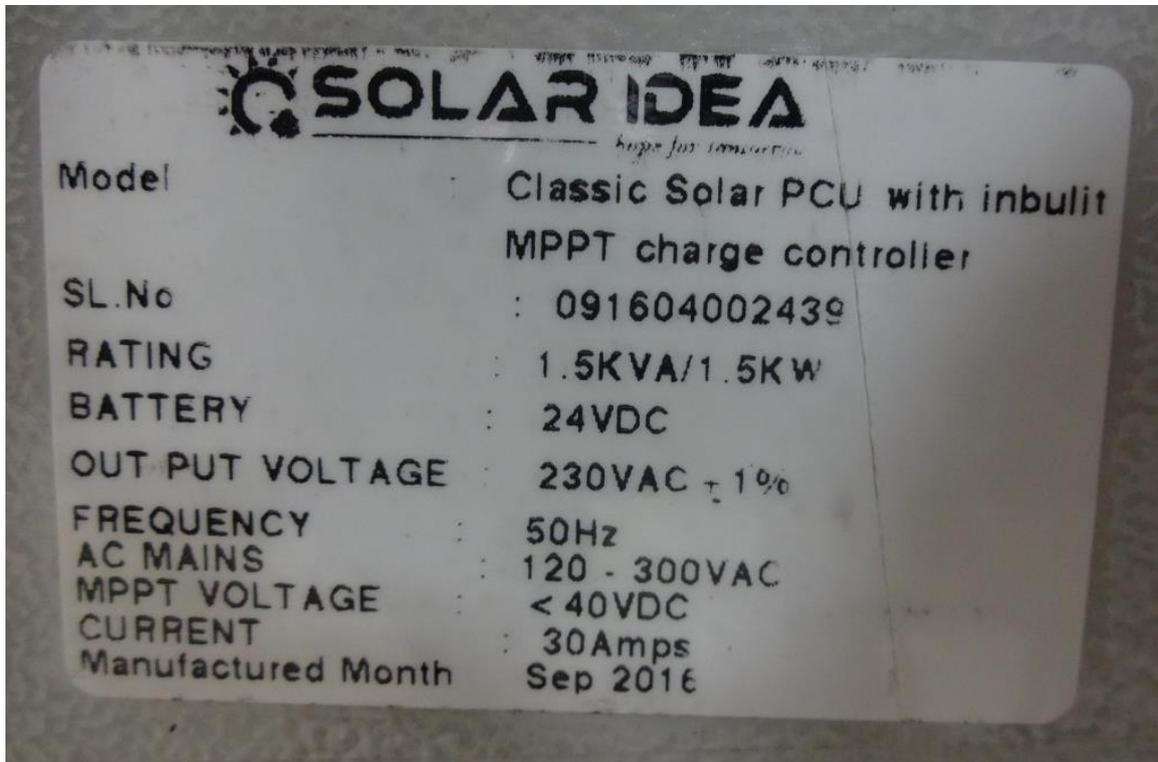


Prüfbericht - Nr.: 19616245 001 <i>Test Report No.:</i>		Seite 1 von 8 <i>Page 1 of 8</i>	
Auftraggeber: <i>Client:</i>		Solar Idea Private Limited 8-2-277/A/7, Plot No .126, Road No - 2, Banjara Hills, Hyderabad - 500034, Telangana, India	
Gegenstand der Prüfung: Classic Solar Power Conditioning Unit with Inbuilt MPPT Charge Controller. <i>Test item:</i>			
Bezeichnung: <i>Identification:</i>	1500VA	Serien-Nr.: <i>Serial No.:</i>	091604002439
Wareneingangs-Nr.: <i>Receipt No.:</i>	1803169361	Eingangsdatum: <i>Date of receipt:</i>	2016.11.04
Prüfört: <i>Testing location:</i>	TÜV Rheinland (India) Pvt. Ltd. 82/A, West Wing, 3rd Main Road, Electronics City Phase 1 Bangalore – 560 100		
Prüfgrundlage: <i>Test specification:</i>	As per IEC 60529: 2013-08 Edition 2.2, (IP21)		
Prüfergebnis: <i>Test Result:</i>	Refer section "Summary of testing".		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland (India) Pvt. Ltd. 82/A, West Wing, 3rd Main Road, Electronics City, Phase 1 Bangalore – 560 100		
geprüft/ tested by:		kontrolliert/ reviewed by:	
 2016.11.11 Sachin Raj / Engineer		 2016.11.11 Basavant Magadum / Asst. Manager	
<i>Datum</i> Date	<i>Name/Stellung</i> Name/Position	<i>Unterschrift</i> Signature	<i>Datum</i> Date
	<i>Name/Stellung</i> Name/Position	<i>Unterschrift</i> Signature	
Sonstiges/ Other Aspects:			
The report consists of 08 pages including this coverpage and following attachment:			
Attachment 1: Photo Document			
Abkürzungen:		Abbreviations:	
<i>P(ass)</i>	= entspricht Prüfgrundlage	<i>P(ass)</i>	= passed
<i>F(ail)</i>	= entspricht nicht Prüfgrundlage	<i>F(ail)</i>	= failed
<i>N/A</i>	= nicht anwendbar	<i>N/A</i>	= not applicable
<i>N/T</i>	= nicht getestet	<i>N/T</i>	= not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

1 General Details

Test item description	Classic Solar Power Conditioning Unit with Inbuilt MPPT Charge Controller
Manufacturer	Solar Idea Private Limited
Model and/or Type reference	1500VA
Serial no.	091604002439
EUT Rating	Input : 24 V DC Output : 230 V AC
Test requested	IP21
No. of samples	IP21 – One Sample
Applicable standard	As per IEC 60529: 2013-08 Edition 2.2
EUT Dimensions(L x W x H)	440mm x 295mm x 410mm
Weight	34.36 Kgs
Product orientation	Floor based
Condition of EUT on receipt	Good
Date of receipt	2016.11.04
Date of testing	2016.11.04
Others	N/A

Copy of marking plate:**General product information and considerations:**

Classic Solar Power Conditioning Unit with In Built MPPT Charge Controller used for mainly Solar Power Back Ups Applications.

Summary of testing:**IP 2x : Pass**

Observations: Test probe is not accessible to any hazardous live and mechanical parts.

IP x1 : Pass

Observations: Water has not ingressed inside the EUT.

Test equipment list

Item No	Type	Make / Model	Equipment No. / Sl. No.	Calibration due date
1	IP2x Test probe	LUMETRONICS	30-2003-1007	09/08/2017
2	IPx1 Set up	Custom Made	30-2012-1081	N/A
3	Cold Water Bath	Envisys	30-2014-3015	03/01/2017
4	Timer	RACER	30-2016-4226	04/02/2017

IEC 60529		
Test Condition	Description	Verdict

2 Test Specifications for IP2x Test

IP 2x Test		
Protection against access to hazardous parts with a tool		
Test lab ambient temperature/humidity & pressure during test	24.2°C, 62%rh, 901 mbar.	-
The jointed test finger of 12 mm diameter may penetrate up to its 80 mm length, but adequate clearance shall be kept.	Jointed test finger is not accessible to any live hazardous parts in the EUT	P
The access probe shall not touch hazardous mechanical parts	The access probe does not touch hazardous mechanical parts through any opening.	P
Protection against solid foreign objects		
The protection against the ingress of solid foreign objects implies that the object probes shall not fully penetrate the enclosure		-
Rigid sphere without handle or guard 12.5mm diameter with test force 30 N ± 10 %	Adequate clearance from hazardous parts	P
The protection is satisfactory if the full diameter of the probe specified above does not pass through any opening	Probe does not pass through any opening	P

IEC 60529		
Test Condition	Description	Verdict

3 Test Specifications for IPx1 Test

IPx1 Test		
Protection against vertically falling water drops		
Test lab ambient temperature/humidity & pressure during test	24.1°C, 63%rh, 904 mbar.	-
Delivery rate	1mm/min +5%	-
Distance from nozzle to enclosure surface	200mm	-
Test duration	10 min.	-
Visual check for water ingress	After exposure, EUT was gently cleaned before opening for the deposited water on the enclosure. On opening of enclosure no water ingress observed.	P
Water ingress is sufficient to interfere with the correct operation of the equipment or impair safety	The unit was turned ON after the test and was found to be working fine.	P
Water ingress is deposited on insulation parts where it could lead to tracking along the creepage distances	No water deposited on high voltage insulation path	P
Water ingress has reached live parts or windings that are not designed to operate when wet	No water deposited on live parts.	P



Front view



Rear View



Overall view



IPx1 Observation (No water ingress)

End of Test Report