

Celebrating
48
years

V-GUARD

ALL NEW SOLRIGO SERIES

3kW - 100kW

EXPERIENCE THE MAGIC OF THE SUN ROOFTOP SOLAR SYSTEM




GENERATE
GREEN POWER


MORE POWER.
MORE SAVINGS.


SMART MOBILE
OPERATION


SUPPORTS EXPORT
LIMIT TO THE GRID


WITH FREE WI-FI
DATA LOGGER INVERTER


ON SITE SERVICE
PAN INDIA

Certified by

मानक. प्रमाणन. संस्थान
Bureau of Indian Standards

30 YEARS
WARRANTY
INDUSTRY LEADING LINEAR
POWER OUTPUT
WARRANTY ON PANEL
WITH ONSITE SERVICE

8+2
YEAR EXTENDED
WARRANTY*
SOLRIGO SERIES

*Conditions apply



THE V-GUARD STORY

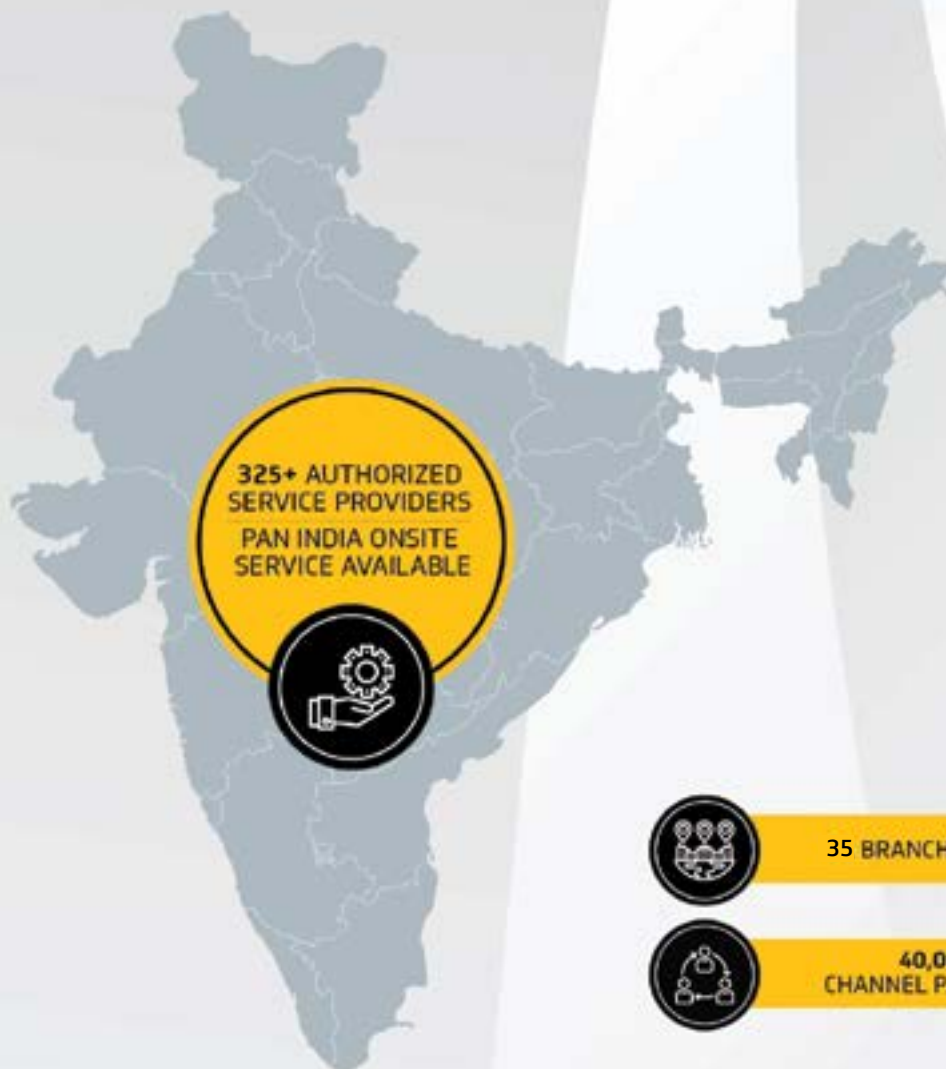
- V-Guard industries was established in the year 1977, when Mr. Kochouseph Chittilappilly set out to build a robust brand in the Indian electrical and electronic goods market.
- Within a short span of time, V-Guard became a name synonymous with voltage stabilizers across South India.
- The company soon extended their range of products to Inverters, DUPS, Solar Power Systems, Inverter Batteries, Electric Water Heaters, Solar Water Heaters, Heat Pump Water Heaters, Pumps & Motors, MCBs & DBs, Wires & Cables, Induction Cooktops, Mixer Grinders, Fans, Gas Stoves, Rice Cookers, Modular Switches, Water Purifiers, Air Coolers and Breakfast Appliances.
- Embracing new frontiers in technology, we bring to you a range of thoughtfully engineered products, empowering you to bring home a better tomorrow.



**ESTABLISHED
IN THE YEAR
1977**

**19 PRODUCT
CATEGORIES**

**TOTAL
REVENUE
5500 + CR**



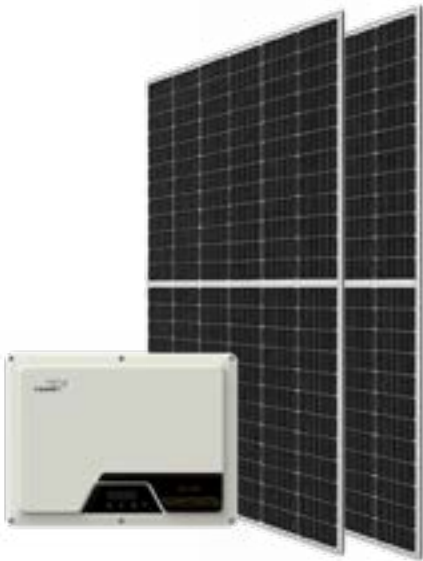
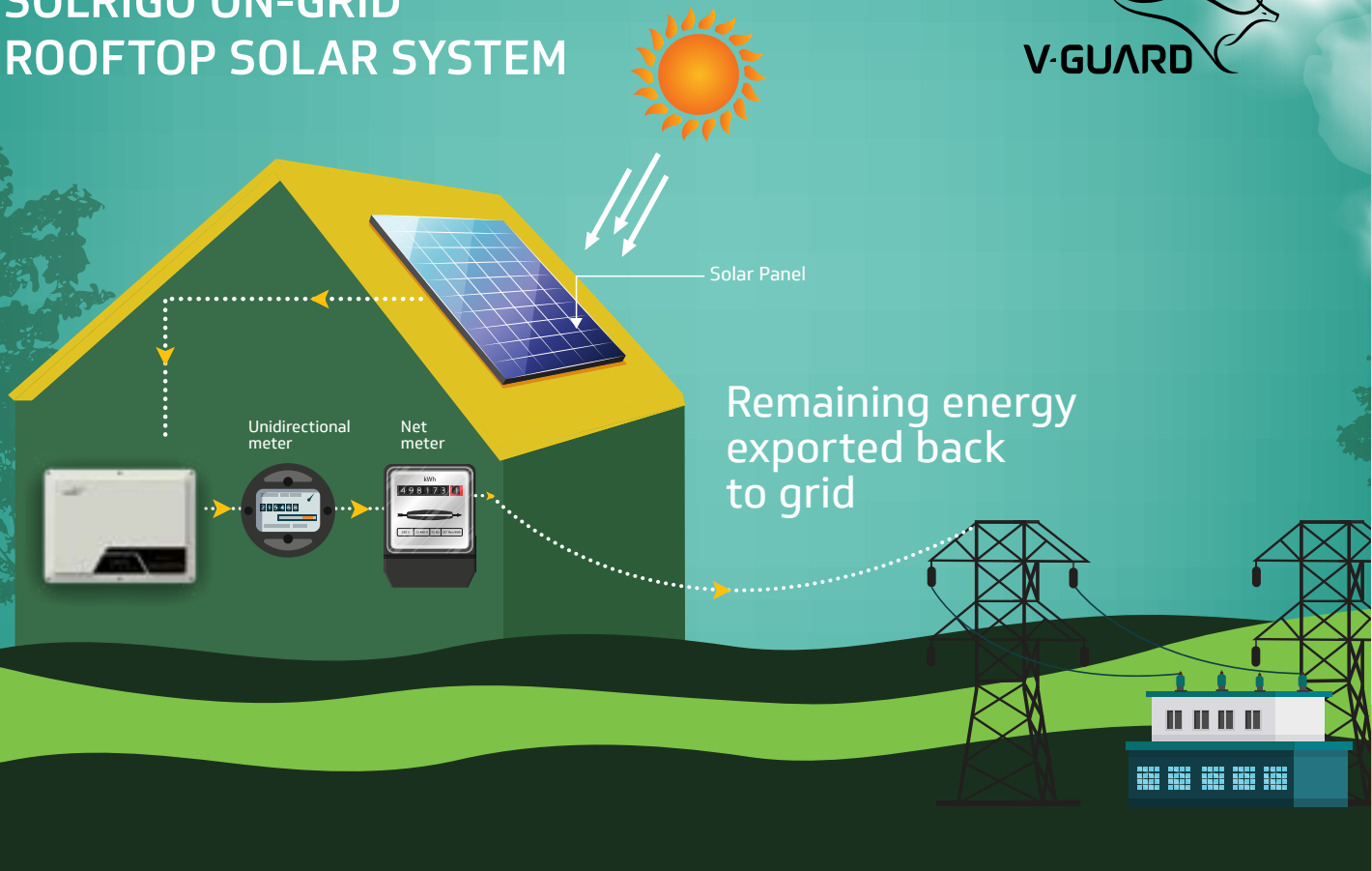
35 BRANCHES



40,000
CHANNEL PARTNERS

1977  Stabilizers	>	1992  Single Phase Pumps	>	1996  Water Heaters	>	1996  Wiring Cables	>	1998  UPS	>	1999  Digital Stabilizers	>	2004  Solar Water Heaters	
<	2012  Induction Cook Tops	<	2011  Switchgears	<	2010  Three Phase Pumps	<	2009  Inverters & Batteries	<	2008  Electric Motors	<	2005  Ceiling & Exhaust Fans	<	2005  LED TV Stabilizers
<	2013  Mixer Grinders	>	2015  Gas Stoves	>	2017  Rice Cookers	>	2017  Modular Switches	>	2018  Air Coolers	>	2019  Grilling	>	2019  Kettles
V-GUARD PRODUCT PORTFOLIO V-GUARD in 47 years, has evolved into a multi-product conglomerate straddling more than 19 PRODUCT CATEGORIES.	<	2022  Solsmart On-grid PV Inverters	<	2020  Water Purifiers	<	2020  Kitchen Chimneys	<	2019  Toasters	<	2019  Sandwich Makers			

SOLRIGO ON-GRID ROOFTOP SOLAR SYSTEM



Solar energy brought to you in a smart way! Introducing SOLRIGO On-Grid Rooftop Solar Systems, a futuristic product from the house of V-Guard. Developed using state-of-the-art technology and engineered to meet global standards, the SOLRIGO power systems generate electricity from solar energy. Being an on-grid system, you can feed the surplus energy produced by the same back to the connected powergrid, thereby reducing your electricity bills. The system is powered by feature-loaded high-efficiency Mono Perc panels with a warranty of over 25 years. The SOLRIGO PV inverter incorporated in the system boasts of such power-packed features as free Wi-Fi data logger, high operating temperature range, smart mobile-app controlled operation, and a whopping 10-year warranty! SOLRIGO systems are available in both single phase and three-phase models so that you can choose the perfect fit for your home.

WHY CHOOSE V-GUARD SOLAR ROOFTOP SOLAR PLANTS?

- GENERATE GREEN POWER AND SAVE ON YOUR MONTHLY ELECTRICITY BILLS.
- LIFETIME ONSITE SERVICE AND POST-SALES SUPPORT AVAILABLE.
- 47 YEARS OF TRUST.
- ONE STOP SOLUTION PROVIDER FOR SOLAR INVERTER AND SOLAR PANELS.
- SUITABLE FOR DOMESTIC AND INDUSTRIAL APPLICATIONS.



ON-GRID INVERTER

The V-Guard's SOLRIGO Solar On Grid Inverter uses state of the art technology, by connecting the inverters to the solar panels to generate electricity. These are of inverters have been engineered to global standards with stylish aesthetics and high levels of efficiency in the market today. Since the solar panel is actively used to generate electricity with its connection to the grid system to export power, this technology put to place helps reduce the overall electricity bill. The SOLRIGO Solar Grid Inverters offer both single and three phase models.



Compatible with Monoperc Bifacial & Topcon series panels

8+2

YEAR EXTENDED
WARRANTY*

Certified by



10 YEARS ON SITE
WARRANTY



INBUILT DC SWITCH FOR
BETTER LIFE AND PROTECTION

*8 years warranty on manufacturing defects & 2 years optional. Conditions apply.

TECHNICAL SPECIFICATION

	1P SINGLE PHASE MODELS				3P THREE PHASE MODELS	
Capacity	3	3.3/3.4	5	5	5	8
Input (DC)						
Max Peak DC Input Power (KW)	3	3.6	5.5	6	6.00	9.60
Max. DC I/P (V dc)	550Vdc	500Vdc	550Vdc	550Vdc	1000	1000
Max. MPPT I/P Current(A)	16A	13A	16A	13A	13A	13A
MPPT Short Circuit Current (A)	20A/22A	20A	20A/22A	20A	20A	20A
MPPT Tracking Voltage (Vdc)	70-550	80-500	70-550V	100-550	150-1000	150-1000
Min. Start Voltage (V)	50Vdc	80Vdc	100Vdc	100Vdc	180Vdc	180Vdc
Number of MPPT Tracker	1	1	1	2	2	2
strings Per MPPT Trackers	1	1	1	1	1	1
Output (AC)						
Rated output power (KW)	3	3.4	5.0	5.0	5	8
Rated Grid Voltage (V)	140 - 300	140 - 300	140 - 300	140 - 300	380/400/415 (400 Default)	380/400/415 (400 Default)
Nominal Grid freq.(Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)
Max. output current AC (A)	13	13.80	21.7	21.73	7.2	11.6
AC Connection (with PE)	P + N + E	P + N + E	P + N + E	P + N + E	3P+ N +PE	3P+ N +PE
THDI (%)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)
Output Power factor(%)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)
Efficiency						
Max. conversion eff. (%)	98.0	98.0	98.0	97.9	98.2	98.2
Max. Euro Efficiency (%)	97.5	97.0	97.5	97.4	97.5	97.5
Protection						
DC Reverse Polarity	N.A.	Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated
AC Short circuit	N.A.	Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated
Ground Fault Monitoring	N.A.	Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated
Grid Monitoring	N.A.	Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated
Anti-Islanding Protection	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Insulation Resistance Detection	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Residual Current Monitoring	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Over Voltage Protection	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
AFCI Protection	N.A.	Optional	N.A.	Optional	Optional	Optional
DC Switch	Optional	Optional	Inbuilt	Optional	Inbuilt	Inbuilt
String Fault Monitoring	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Surge Protection - AC	MOV / SPD / Filters	TMOV	MOV / SPD / Filters	TMOV	TMOV +Filter	TMOV +Filter
Surge Protection - DC	MOV / SPD / Filters	TMOV	MOV / SPD / Filters	TMOV	TMOV +Filter	TMOV +Filter
General Data						
Dimensions(W*H*D) mm	393*328*154mm	297*223*117mm	425*351*160mm	395*328*154mm	425*351*160mm	425*351*160mm
Weight (Kg)	10Kg	4.8Kg	13.7Kg	10Kg	13.7Kg	14Kg
Noise Emission (dB)	<30dB	<30dB	<30dB	<30dB	<30dB	<30dB
Display	LED with LCD Display	WHITE LCD & LED	LED with LCD Display	WHITE LCD & LED	WHITE LCD & LED	WHITE LCD & LED
DC Connection type	MC-4	MC-4	MC-4	MC-4	MC-4	MC-4
AC Connection type	Plug in Connector / Wire cables	Plug in Connector / Wire cables	Plug in Connector / Wire cables	Plug in Connector / Wire cables	Plug in Connector	Plug in Connector
Communicaton interface	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485
Cooling Method	Natural Convection / Smart Fan Cooling	Natural Convection	Natural Convection / Smart Fan Cooling	Natural Convection	Natural Convection	Natural Convection
Operating ambient	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C
Relative Humidity	0% - 100%	0% - 100%	0% - 100%	0% - 100%	0% - 100%	0% - 100%
Max. Operating Altitude (m)	2000 (>2000 Derating)	2000 (>2000 Derating)	2000 (>2000 Derating)	2000 (>2000 Derating)	2000 (>2000 Derating)	2000 (>2000 Derating)
Protection Class	IP65	IP65	IP65	IP65	IP65	IP65
Night stand by power Consump- tion (w)	<1	<1	<1	<1	<1	<1
Standard Warranty	10 yrs	8 yrs	10 yrs	8 yrs	8 yrs	8 yrs
Certifications	BIS	BIS	BIS	BIS	BIS	BIS

3P THREE PHASE MODELS						
10	15	25	35	50	80	100
12.00	18.00	30.00	42.00	60.00	96.00	120.00
1000	1000Vdc	1000	1100	1100	1100	1100
13A	26A	26A	30A	30A	48A & 36A	60A
20A	40A	40A	45A	45A	60A & 45A	75A
150-1000	150-1000	150-1000	150-1000	150-1000	200-1000V	200-1000V
180Vdc	150/180Vdc	150Vdc	180Vdc	180Vdc	200Vdc	200Vdc
2	2	2	3	4	4	4
1	2	2	2	2	4+3	5
10	15	25	35	50	80	100
380/400/415 (400 Default)	380/400/415 (300 - 500)	380/400/415 (400 Default)	380/400/415 (400 Default)	380/400/415 (400 Default)	380/400/415 (400 Default)	380/400/415 (400 Default)
50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)	50Hz / 60Hz (47-52Hz) / (57-62Hz)
14.5	21.7	36.1	50.6	72.3	115.6	144.5
3P+ N +PE	3P+ N + E	3P+ N +PE	3P+ N +PE	3P+ N +PE	3P+ N +PE	3P+ N +PE
<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)	<3% (At Rated Power)
(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)	(0.8 Lead) 1 (0.8 Lag)
98.2	98.0	98.6	98.7	98.7	98.9	98.9
97.5	97.5	97.2	98.3	98.3	98.5	98.5
Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Yes Integrated	N.A.	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
Optional	N.A.	Optional	Optional	Optional	Optional	Optional
Inbuilt	Inbuilt	Inbuilt	Inbuilt	Inbuilt	Inbuilt	Inbuilt
N.A.	N.A.	N.A.	Yes Integrated	Yes Integrated	Yes Integrated	Yes Integrated
TMOV +Filter	MOV / SPD / Filters	TMOV +Filter	TMOV +Filter	TMOV +Filter	SPD Type II	SPD Type II
TMOV +Filter	MOV / SPD / Filters	TMOV +Filter	SPD Type II	SPD Type II	SPD Type II	SPD Type II
425*351*160mm	425*351*160mm	425*351*200mm	580*435*242mm	580*435*242mm	705*650*285mm	800*680*330mm
14Kg	13.7Kg	20Kg	40Kg	40Kg	75Kg	89Kg
<30dB	<30dB	<45dB	<30dB	<30dB	<30dB	<30dB
LED with LCD Display	LED with LCD Display	WHITE LCD & LED	WHITE LCD & LED	WHITE LCD & LED	LED indicators (LCD - optional)	LED indicators (LCD - optional)
MC-4	MC-4	MC-4	MC-4	MC-4	MC-4	MC-4
Plug in Connector / Wire cables	Plug in Connector	Plug in Connector	Terminal Block	Terminal Block	Terminal Block	Terminal Block
WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485	WiFi/ GPRS/ RS485
Smart Fan Cooling	Natural Convection / Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
-25 C - +60°C	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C	-25 C - +60°C
0% - 100%	0% - 100%	0% - 100%	0% - 100%	0% - 100%	0% - 100%	0% - 100%
2000 (>2000 Derating)	2000 (>2000 Derating)	2000 (>2000 Derating)	2000 (>2000 Derating)	2000 (>2000 Derating)	4000 (>3000 Derating)	4000 (>3000 Derating)
IP65	IP65	IP66	IP65	IP65	IP66	IP66
<1	<1	<1	<1	<1	<5	<5
8 yrs	10 yrs	8 yrs	8 yrs	8 yrs	8 yrs	8 yrs
BIS	BIS	BIS	BIS	BIS	BIS	BIS

* All performance parameters are checked under standard test conditions at 230 V, 50 Hz Ac
* Colours and specifications are subject to change without prior notice.
* Colours shown may not match the actual colours due to printing limitations

V-Guard Industries Ltd. ,

Registered Office: 42/962, Vennala High School Road, Vennala, Kochi - 682 028, Kerala.

Ph: 0484-2005000, 4335000 email: customercare@vguard.in | www.vguard.in

SCAN TO AVAIL THE
DIGITAL
WARRANTY
BY REGISTERING YOUR
PRODUCT ONLINE



V-Guard Care
0120 485 0100
1860 180 3000
customercare@vguard.in
9633503333



www.vguard.in/home/customer-care
CIN: L31200KL1996PLC010010

