

**WAAREE**<sup>®</sup>

*One with the Sun*

















# WAAREE INVERTERS

**Powering Every Possibility**

# Waaree Inverter

Compact. Efficient. Optimized for Maximum Solar Harvest.

Waaree offers one of the most comprehensive inverter portfolios, spanning from compact single-phase residential solutions to high-capacity three-phase inverters (from 0.7kW to 350kW) designed for residential, Commercial and Utility-scale projects. Built with global efficiency standards, smart monitoring, robust protection, and Indian grid compatibility, Waaree inverters empower solar generation with unmatched reliability.

- |   |  |
|---|--|
|  Low Start up Voltage                          |  Remote Monitoring                    |
|  Up to 99% MMPT Efficiency                     |  Smart Air-Cooling System             |
|  Up to 97.2% Max Efficiency                    |  PID Recovery                         |
|  Anti Islanding and Surge Protection           |  AFCI – Arc Fault Circuit Interrupter |
|  IP65 and IP66 Ingress Protection              |  C5 – Anti Corrosion                  |
|  Complaint to Safety standard – EN, IEC & BIS |  PV String Current Monitoring        |
|  Easy Installation                           |  8 Years Warranty                   |



## Why Waaree Inverters?



### Data Privacy and Local Data Hosting

- Data fully complies with privacy laws and is never shared with third parties.
- All inverter data is stored securely in locally hosted Indian data servers.
- No data is routed to, or stored in foreign data centers.
- Customers retain full control and visibility over their data



### Real-Time Monitoring App

- Live Generation Tracking – Track real-time solar power generation
- Detailed Hourly Performance Insights – Hourly energy generation analytics for system optimization.
- Real-Time Fault Detection & Alerts
- Higher MPPT Count for Superior Performance



### Strong National Support

- 400+ Sales Partners Across India
- 120+ Authorized Service Centers (Expanding to 400+)\*
- Guaranteed First Response Within 2 Hours, First visit within 24 Hours and Replacement approval within 2 days\*\*
- Minimized System Downtime with Faster Turnaround



### Proven Expertise

- 2.5+ Lakh Inverters Deployed Across India
- 8+ Years of On-Grid Inverter Service Experience
- Trusted by Residential, Commercial & Utility Segments.

# Inverters Manufactured in India

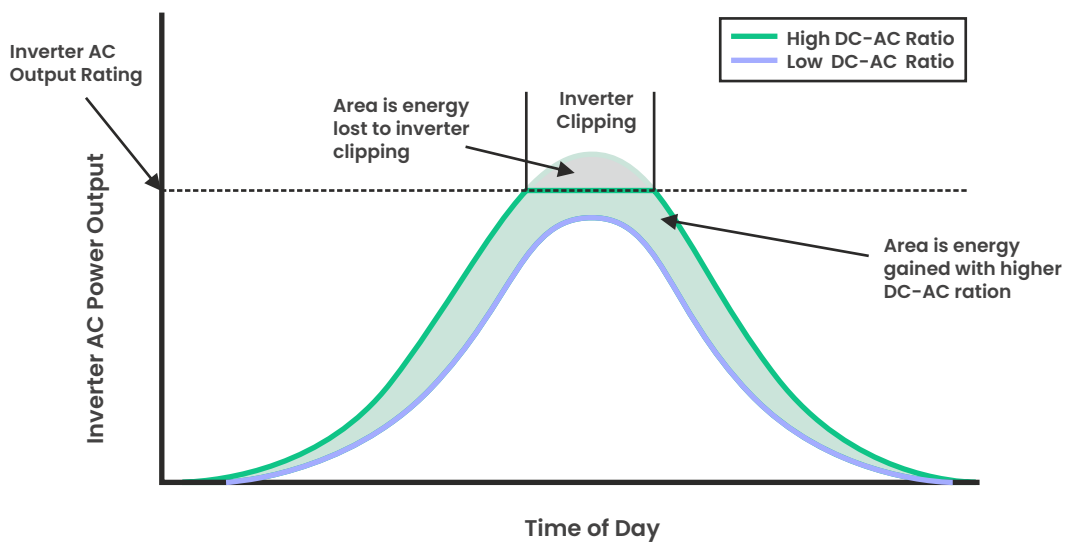
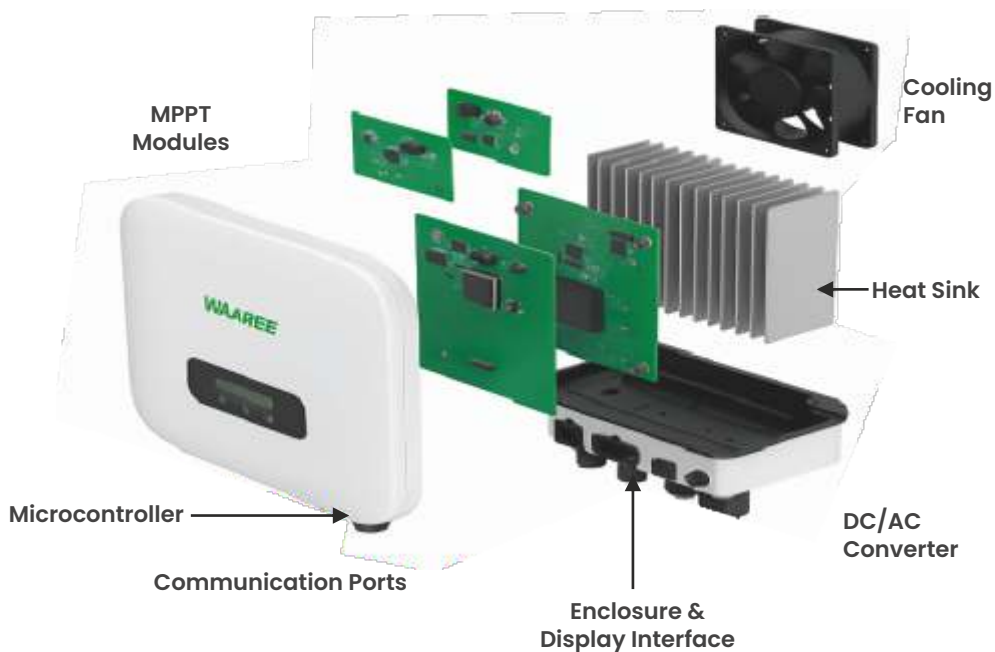
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- **4 GW Manufacturing Capacity**
- **Make In India** - Not Locally Assembled but Locally Manufactured Inverters
- **Secured Supply Chain** with Raw Material Sourced from Local & International Vendors
- From **PCBA to FG**.
- State of the Art **In-house Testing Lab** for Best-in-Class Quality



# Redefining Performance

- **Higher MPPT Count for Superior Performance** – Industry best 6 MPPT count for 350kW Inverter with through put of 300kW at 50°C.
- **Up to 150% DC to AC ratio** – Lesser number of Inverter required per kW & Inverter max. power reaches earlier & gives higher output.
- **Future-ready and compatible with battery storage systems.** The inverter doesn't have to be replaced, only a few additional components are required to enable seamless integration.



# Made in India Made for India



Products designed as per Indian conditions and MNRE Directives



Components tested for up to 60°C ambient temp. for Indian climatic conditions



Optimised for Voltage fluctuations which is common in India



C5 – Anti Corrosion body for Humid Coastal Conditions



Easy compliance with BIS & local DISCOM rules



Faster Service and Lower System Downtime with locally available spares and wide network of ASP

**Better Performance**



## Waaree Single Phase Inverter

# 0.7kW to 3.3kW



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Compact. Efficient. Optimized for Maximum Solar Harvest.

Model	700	1000	1500	2000	2500	3000	3300
<b>Input (PV)</b>							
Max. Recommended DC Power [w]	1050	1500	2250	3000	3750	4500	5400
Max. DC Voltage [V]				500			
Nominal DC Operating Voltage [V]				360			
Max. Input Current [A]				20			
Max. Short Circuit Current [A]				26			
MPPT Voltage Range [V]				50-480			
MPPT Voltage Range (Full Load) [V]	80-450	110-450	160-450	210-450	240-450	280-450	300-450
Start-up Voltage [V]				60			
No. of MPP Trackers				1			
Strings per MPP Tracker				1			
<b>Output (AC)</b>							
Nominal AC Power [w]	700	1000	1500	2000	2500	3000	3300
Max. AC Apparent Power [VA]	800	1100	1650	2200	2750	3300	4000
Rated Grid Voltage (AC Voltage Range) [Vac]				220/230/240			
Rated Grid Frequency [Hz]				50/60			
Nominal AC Current [A]	3.0	4.3	6.5	8.7	10.9	13.0	14.3
Max. AC Current [A]	3.5	4.8	7.2	9.6	12.0	14.3	17.4
Displacement Power Factor				1 (0.8 leading ~ 0.8 lagging)			
Total Harmonic Distortion (THDi, Normal Output)[%]				3			
<b>Efficiency</b>							
MPPT Efficiency [%]	99.00	99.00	99.00	99.00	99.00	99.00	99.00
Euro- Efficiency [%]	96.50	96.50	96.50	96.80	96.50	96.50	96.50
Max. Efficiency [%]	97.20	97.20	97.30	97.40	97.40	97.40	97.40
<b>Protection</b>							
DC Reverse-polarity Protection				YES			
Anti-islanding Protection				YES			
Insulation Monitoring				YES			
Residual-current Monitoring				YES			
AC Short Circuit Protection				YES			
AC Output Over Current Protection				YES			
AC Output Over Voltage Protection				III (AC), II (PV)			
Surge Protection				DC/AC: Type II (Optional)			
Temperature Protection				YES			
AFCI Protection				Optional			
Integrated DC Switch				Optional			
<b>General Data</b>							
Dimensions (W*H*D) [mm]				290*220*116			
Weight [kg]				5.4			
Cooling Method				Natural Convection			
Topology				Non-isolated			
Noise Emission (typical) [dB]				<30			
Max. Operating Altitude[m]				3000 m (>2000m Derating)			
Operating Temperature Range [°C]				-25-60			
Humidity [%]				0- 100 (No Condensation)			
Ingress Protection				IP65			
Internal Consumption at Night [W]				<1			
Monitoring Module: WIFI / GPRS				Optional			
Communication				RS485, Meter/CT, ISO alarm			
Display				LCD, Touch Key, App, Website			
<b>Standard Compliance (More Available upon Request)</b>							
Safety				EN 62109-1/2, IEC 62109-2, BIS IS 16169, BIS IS 16221-2			
EMC				EN 61000-6-3, EN IEC 61000-3-2/3, EN IEC 61000-6-1/2/4			
Certification				IEC 61727, IEC 62116, IEC 61683, IEC 60068-2-1/2/14/30/64			

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## Waaree Single Phase Inverter

# 3kW to 6kW



**WAAREE**<sup>®</sup>  
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Performance. Flexibility. Future-ready.

Model	3000	3600	4600	5000	5300	6000
<b>Input (PV)</b>						
Max. Input Power [W]	4500	5400	6900	7500	7950	9000
Max./Min. Input Voltage [V]	600/80	600/80	600/80	600/80	600/80	600/80
Start-up Input Voltage [V]	120	120	120	120	120	120
Rated Input Voltage [V]	360	360	360	360	360	360
MPPT Operating Voltage Range [V]	80 ~ 550					
Max. Input Current [A]	14					
Max. Short-circuit Current [A]	18					
No. of Independent MPP Trackers	2					
No. of Strings per MPP Tracker	1					
<b>Output (AC)</b>						
Rated Output Apparent Power [VA]	3000	3600	4600	5000	5300	6000
Max. Output Apparent Power [VA]	3300	3960	5060	5500	5830	6000
Rated Grid Voltage [Vac]	220/230/240					
Rated Grid Frequency [Hz]	50/60					
Rated Output Current [A]	13.0	15.7	20.0	8.7	21.7	23.0
Max. Output Current [A]	14.3	17.2	22.0	9.6	23.9	25.3
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)					
Total Harmonic Distortion (THDI) [%]	<3					
<b>Efficiency</b>						
MPPT Efficiency [%]	99.00					
Euro- Efficiency [%]	96.80					
Max. Efficiency [%]	97.40					
<b>Protection</b>						
Insulation Monitoring	YES					
Residual Current Monitoring	YES					
PV String Current Monitoring	YES					
DC Reverse Polarity Protection	YES					
Anti-islanding Protection	YES					
AC Short-circuit Protection	YES					
AC Overcurrent Protection	YES					
AC Overvoltage Protection	YES					
Surge Protection	Optional (DC/AC: Type II)					
DC Switch	Optional					
AFCI	NO					
<b>General Data</b>						
Dimensions (W*H*D) [mm]	402*453*148					
Weight [kg]	14.8					
Cooling Method	Natural Convection					
Topology	Transformerless					
Noise Emission (typical) [dB]	<30					
Max. Operating Altitude [m]	3000					
Operating Temperature Range [°C]	-25~60					
Humidity [%]	0~ 100 (No Condensation)					
Ingress Protection	IP65					
Internal Consumption at Night [W]	<1					
Monitoring Module	LAN/WIFI/GPRS/4G (Optional)					
Communication	RS485, Meter / CT, DRM					
Display	LCD, Touch Key, App, Website					
Country Of Manufacture	China					
<b>Standard Compliance (More Available upon Request)</b>						
Safety	EN/IEC 62109-1/2					
EMC	EN 61000-6-1/2/3/4					
Certification	AS/NZS-4777.2, CEI 0-21					

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## Waaree Three Phase Inverter

# 3kW to 25kW

Powering Performance for Homes and Businesses.



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One with the Sun

Model	3	4	5	6	8	10	12	15	17	20	23	25
<b>Input (PV)</b>												
Max. Input Power [W]	4500	6000	7500	9000	12000	15000	18000	22500	25500	30000	34500	37500
Max. Input Voltage [V]	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Start-up Input Voltage [V]	140	140	140	140	140	140	140	140	140	140	140	140
Rated Input Voltage [V]	600	600	600	600	600	600	600	600	600	600	600	600
MPPT Operating Voltage Range [V]	140~1000	140~1000	140~1000	140~1000	140~1000	140~1000	140~1000	140~1000	140~1000	140~1000	140~1000	140~1000
Max. Input Current [A]	14	14	14	14	14	14	14	28	28	28	28	28
Max. Short-circuit Current [A]	18.2	18.2	18.2	18.2	18.2	18.2	18.2	36.4	36.4	36.4	36.4	36.4
No. of Independent MPP Trackers	2	2	2	2	2	2	2	2	2	2	2	2
No. of Strings per MPP Tracker	1+1	1+1	1+1	1+1	1+1	1+1	1+1	2+2	2+2	2+2	2+2	2+2
<b>Output (AC)</b>												
Rated Output Power [W]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000
Max. Output Apparent Power [VA]	3300	4400	5500	6600	8800	11000	13200	16500	18700	22000	25300	27500
Rated Grid Voltage [V]	(3 / N) / P * E ,220/380,230/400,240/415											
Rated Grid Frequency [Hz]	50/60											
Rated Output Current [A]	4.3	5.8	7.2	8.7	11.6	14.5	17.4	21.7	24.6	29.0	33.3	36.2
Max. Output Current [A]	4.8	6.4	8.0	9.6	12.8	15.9	19.1	23.9	27.1	31.9	36.7	39.9
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)											
Total Harmonic Distortion [THDI] [%]	<3											
<b>Efficiency</b>												
MPPT Efficiency [%]	99.8											
Euro- Efficiency [%]	97.8											
Max. Efficiency [%]	98.6											
<b>Protection</b>												
Insulation Monitoring	YES											
Residual Current Monitoring	YES											
PV String Current Monitoring	YES						Optional					
DC Reverse Polarity Protection	YES											
Anti-islanding Protection	YES											
AC Short-circuit Protection	YES											
AC Overcurrent Protection	YES											
AC Overvoltage Protection	YES											
Surge Protection	DC/AC: Type II											
DC Switch	Optional											
AFCI	Optional											
<b>General Data</b>												
Dimensions (W*H*D) [mm]	370*480*183.5											
Weight [kg]	17	17	17	17	17	17	17	20	20	20	20	20
Cooling Method	Natural Convection						Fan					
Topology	Transformerless											
Noise Emission (typical) [dB]	<30	<30	<30	<30	<30	<30	<30	<55	<55	<55	<55	<55
Max. Operating Altitude [m]	3000											
Operating Temperature Range [°C]	-25-60											
Humidity [%]	0- 100 (No Condensation)											
Ingress Protection	IP65											
Internal Consumption at Night [W]	<3											
Monitoring Module	WIFI / 4G ( Optional )											
Communication	RS485, Meter, DRM, Estop											
Display	LCD, Touch Key, App, Website											
<b>Standard Compliance (More Available upon Request)</b>												
Safety	EN 62109-1/2, BIS IS 16169, BIS IS 16221-1/2											
EMC	EN 61000-6-1/2/3/4											
Grid Regulation	AS/NZS-4777.2, C10/11, EN50549-1, PN EN-50549-1, VDE-AR-N4105, RD 1699, CEI 0-21, NB/T 32004, VDE V 0126-1-1, UTE C 15-712-1											

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## Waaree Three Phase Inverter

# 30kW to 75kW



**WAAREE**<sup>®</sup>  
One with the Sun

Powering Large-Scale Performance with Precision

Model	30	33	36	40	50	60	75	
<b>Input (PV)</b>								
Max. Input Voltage [V]				1100				
Start-up Input Voltage [V]				250				
Rated Input Voltage [V]				600				
MPPT Operating Voltage Range [VM]				200-1000				
MPPT Voltage Range (V) (Full load)				550-800				
Max. Input Current per MPPT [A]				40				
Max. Short-circuit Current (A)				50				
No. of Independent MPP Trackers	3	3	4	4	4	6	6	
No. of Strings per MPP Tracker				2				
<b>OUTPUT(AC)</b>								
Nominal Output Power (kW)	30	33	36	40	50	60	75	
Nominal Output Apparent Power [kVA]	30	33	36	40	50	60	75	
Max. AC Active Power [kW]	33	36.3	39.6	44	55	66	75	
Max. AC Apparent Power [kVA]	33	36.3	39.6	44	55	66	75	
Nominal Output Voltage [V]	380/400, 3W+N+PE							
Nominal AC Grid Frequency [Hz]	50/60							
AC Grid Frequency Range [Hz]	45-55 / 55 ~65							
Max. Output Current (A)	50.2	55.2	60.2	66.9	83.6	100.3	114	
Output Power Factor	0.8 leading to 0.8 lagging							
Max. Total Harmonic Distortion [%]	<3 at Nominal Output Power							
<b>EFFICIENCY</b>								
Euro-Efficiency [%]	98.4	98.4	98.4	98.4	98.1	98.1	98.1	
Max. Efficiency [%]	98.7	98.7	98.7	98.7	98.5	98.5	98.5	
<b>PROTECTION</b>								
DC Switch				YES				
DC Reverse Polarity Protection				YES				
AC Short-circuit Protection				YES				
AC Overcurrent Protection				YES				
Insulation Monitoring				YES				
Residual Current Monitoring				YES				
PV String Current Monitoring				YES				
Surge Protection				DC Type II / AC Type II				
PID Recovery				YES				
AFCI				Optional				
Grid monitoring				YES				
Night SVG				YES				
Anti-Corrosion				C5				
<b>GENERAL DATA</b>								
Dimensions (W*H*D) [mm]				640*430*243				
Weight [kg]	41	41	42	42	50	50	50	
Cooling Method	Smart air cooling / FAN							
Max. Operating Altitude [m]	4000							
Operating Temperature Range [°C]	-30-60							
Humidity (%)	0-100 (No Condensation)							
Ingress Protection	IP66							
Pollution Degree	PD 2 (inside), PD 3 (outside)							
Protective class	Class I							
Over Voltage Category	II (DC), III (AC)							
Communication	RS485/USB/Wi-Fi+LAN/4G							
Display	LED, Wi-Fi+APP							

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## Waaree Three Phase Inverter

# 75kW to 136kW



**WAAREE**<sup>®</sup>  
One with the Sun

Powering Large-Scale Performance with Precision

Model	75	80	100	110	125	136
<b>Input (PV)</b>						
Max. Input Voltage (V)			1100			
Start-up-Input Voltage [V]			250			
Rated input Voltage [V]			600			
MPPT Operating Voltage Range [V] (Fill Load)			550-800			
MPPT Operating Voltage Range [V]dc			200-1000			
No. of Independent MP Trackers	9/2	9/2	9/2	10/2	10/2	10/2
Max Input Current [A]			40			
Max Short-circuit Current (A)			50			
<b>OUTPUT(AC)</b>						
Rated Output Power (KW)	75	80	100	110	125	136
Max. Output Apparent Power (KVA)	78*/82.5	88	110	121	137.5	138
Max. Output Current AI	113.7*/125	133.3	166.7	183.3	199.3	200
Rated Grid Voltage (Vac)			400, 3W+N+PE			
Grid Voltage Range [Vat			320~480			
Grid Frequency Range (Hz)			45~55/55~65			
Adjustable Power Factor			0.8 Leading ~0.8 Lagging			
THDI			<3			
<b>EFFICIENCY</b>						
Max. Efficiency [N]			98.6			
Eur. Efficiency [N]			98.2			
<b>PROTECTION</b>						
DC Switch			Yes			
DC Reverse Polarity Protection			Yes			
AC Overcurrent Protection			Yes			
AC Short-circuit Protection			Yes			
Surge Protection			DC Type II/AC Type II			
PID Recovery			Yes			
Insulation Monitoring			Yes			
Residual Current Monitoring			Yes			
AFCI			Optional			
PV String Current Monitoring			Optional			
<b>GENERAL DATA</b>						
Dimensions (W*H*D) [mm]			975*630*360			
Weight [kg]			90			
Operating Temperature °C			-30~60			
Cooling Method			Smart Air Cooling			
Operating Altitude [m]			4000 (>3000m Derating)			
Relative Humidity Range			0~100 (Non-Condensing)			
No-load Power Consumption (W)			3.5			
Ingress Protection Rating			IP66			
Isolation Method			Non-isolated			
Display			LED,Wi-Fi APP			
Communication			RS485/USB/Wi-Fi+LAN/4G (Bluetooth)			
DC Connection Type			MC4 Similar			
AC Connection Type			OT Terminal			
<b>STANDARD</b>						

IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, EN 50549

## Waaree Three Phase Inverter

# 350 kW

Smart, Scalable, and Reliable. High-Performance Inverters for Next-Gen Solar.



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Model	350
<b>INPUT (DC)</b>	
Max. Input Voltage	1500 V
Rated Voltage	1080 V
Start-up Voltage	500 V
MPPT Voltage Range	480-1500 V
Max Input Current	6 × 80 A
Max Short-circuit Current	6 × 125 A
MPPT number/Max. input strings number	6 / 30
<b>OUTPUT (AC)</b>	
Rated Output Power	350 kW
Max. Apparent Output Power	350 kVA
Rated Grid Voltage	3/PE, 800 V
Grid Voltage Range	640 - 920 V
Rated Grid frequency	50 Hz / 60 Hz
Max. Output Current	252.6 A
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)
THDI	< 3%
<b>EFFICIENCY</b>	
Max. Efficiency	99.0%
EU Efficiency	98.7%
<b>PROTECTION</b>	
Dc Reverse-polarity Protection	Yes
Short Circuit Protection	Yes
Output Over Current Protection	Yes
Surge Protection	DC Type II / AC Type II
Grid Monitoring	Yes
Anti-landing Protection	Yes
Temperature Protection	Yes
Strings Monitoring	Yes
I/V Curve Scanning	Yes
Night Time SVG Function	Yes
Integrated PID Recovery	Yes
Integrated DC Switch	Yes
<b>GENERAL DATA</b>	
Dimensions (w X H X D)	1098 × 813 × 378.5 mm
Weight	117 kg
Topology	Transformerless
Self-consumption (Night)	< 3 W
Operating Ambient Temperature Range	-30 ~ +60°C
Relative Humidity	0 - 100%
Ingress Protection	IP66
Cooling Concept	Intelligent fan-cooling
Max Operation Altitude	4000 m
Grid Connection Standard	EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019
Safety/EMC Standard	IEC62109-1/-2, EN61000-6-2/-4
<b>FEATURES</b>	
DC Connection	Matching connector
AC Connection	OT terminal (max. 400 mm <sup>2</sup> )
Display	LED indicator & Bluetooth + APP
Communication	RS485, Optional: PLC

