

WAAREE®

One with the Sun



Waaree Next Gen On-grid Inverters

The Brain of the Integrated Energy System
Secure | Indian-Manufactured | Local Data Hosting

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 1kW 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.

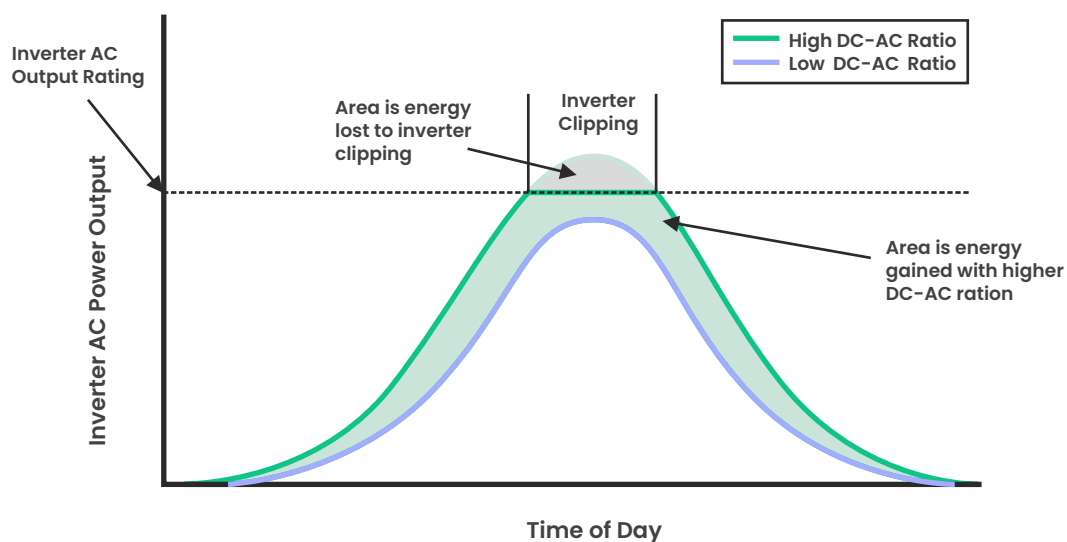
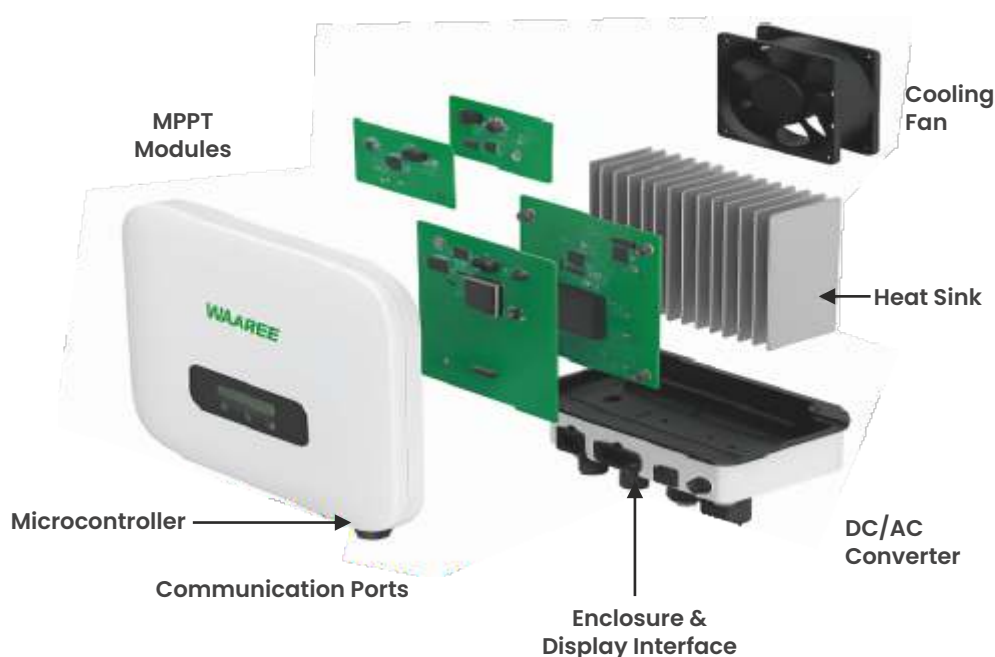
Inverters Manufactured in India

- **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



Optimized 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

1kW to 3.3kW

Compact. Efficient. Optimized for Maximum Solar Harvest.



WAAREE
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Model	700	1000	1500	2000	2500	3000	3300
Input (PV)							
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			
Output (AC)							
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			
Efficiency							
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
Protection							
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			
General Data							
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			
Standard Compliance (More Available upon Request)							
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			

The information provided in this datasheet is for general guidance only. Actual product specifications and features may vary without prior notice and can differ from model to model. Waaree reserves the right to make modifications or improvements to the product as per requirements.



Waaree Single Phase Inverter

3kW to 6kW

Performance. Flexibility. Future-ready.

Model	3000	3600	4600	5000	5300	6000
Input (PV)						
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					
Output (AC)						
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					
Efficiency						
MPPT Efficiency [%]	99.00					
Euro- Efficiency [%]	96.80					
Max. Efficiency [%]	97.40					
Protection						
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					
General Data						
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					
Standard Compliance (More Available upon Request)						
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.



Model	3	4	5	6	8	10	12	15	17	20	23	25
Input (PV)												
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
Output (AC)												
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											
Efficiency												
MPPT Efficiency [%]	99.8											
Euro- Efficiency [%]	97.8											
Max. Efficiency [%]	98.6											
Protection												
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											
General Data												
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											
Standard Compliance (More Available upon Request)												
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											

Waaree Three Phase Inverter

30kW to 75kW



Powering Large-Scale Performance with Precision

Model	30	33	36	40	50	60	75
Input (PV)							
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			
OUTPUT(AC)							
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			
EFFICIENCY							
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
PROTECTION							
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			
GENERAL DATA							
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			

Waaree Three Phase Inverter

75kW to 136kW



Powering Large-Scale Performance with Precision

Model	75	80	100	110	125	136
Input (PV)						
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			
OUTPUT(AC)						
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			
EFFICIENCY						
Max. Efficiency [N]			98.6			
Eur. Efficiency [N]			98.2			
PROTECTION						
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			
GENERAL DATA						
Dimensions (W*H*D) [mm]			975*630*360			
Weight g			90			
Operating Temperature °C			-30~60			
Cooling Method			Smart Air Cooling			
Operating Altitude [m]			4000 (>3000m Derating)			
Relative Humidity Range			0~100 (Non-Condensing)			
Night 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			
STANDARD						

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.

Model	350
INPUT (DC)	
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
OUTPUT (AC)	
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%
EFFICIENCY	
Max. Efficiency	99.0%
EU Efficiency	98.7%
PROTECTION	
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-alanding 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
GENERAL DATA	
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
FEATURES	
DC Connection	Matching connector
AC Connection	OT terminal (max. 400 mm²)
Display	LED indicator & Bluetooth + APP
Communication	RS485, Optional: PLC

