



SOLAR PANELS

SOLAR INVERTER

EV CHARGER

EV

# MINDRA

## CATALOGUE 2020

P i o n e e r I n G r e e n E n e r g y



MINDRA  
Pioneer In Green Energy



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# COMPANY PROFILE

MINDRA GREEN ENERGY Located in Ahmedabad Gujarat which is a national high-tech enterprise specialized in R&D, production and marketing of PV string inverter.

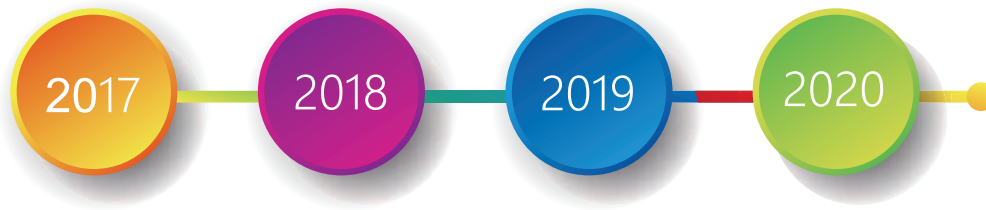
With an eye to the international trend of environmental protection and carbon reduction, MINDRA has successfully developed a family of highly efficient PV inverter products, such as integrated single phase, single and double MPPT, and 3 phase solar grid tied PV inverter with and output protection devices MINDRA could also supply software solution includes both the front end user interface (HMI) as well as the back end central office and cloud-based management and monitoring platforms.

By virtue of experience in driving technology and equipped with an excellent scientific research team, MINDRA is always committed to provide customers with high-quality products.

MINDRA will always devote to provide highly efficient and perfect PV inverter solution for our customers, continuously improves the utilization efficiency of energy, and assumes the leader of green energy and new energy technology in the world. For further business cooperation and become our partner,





please contact us: [support@mindrasolar.com](mailto:support@mindrasolar.com)

# HISTORY



# CREDENTIAL

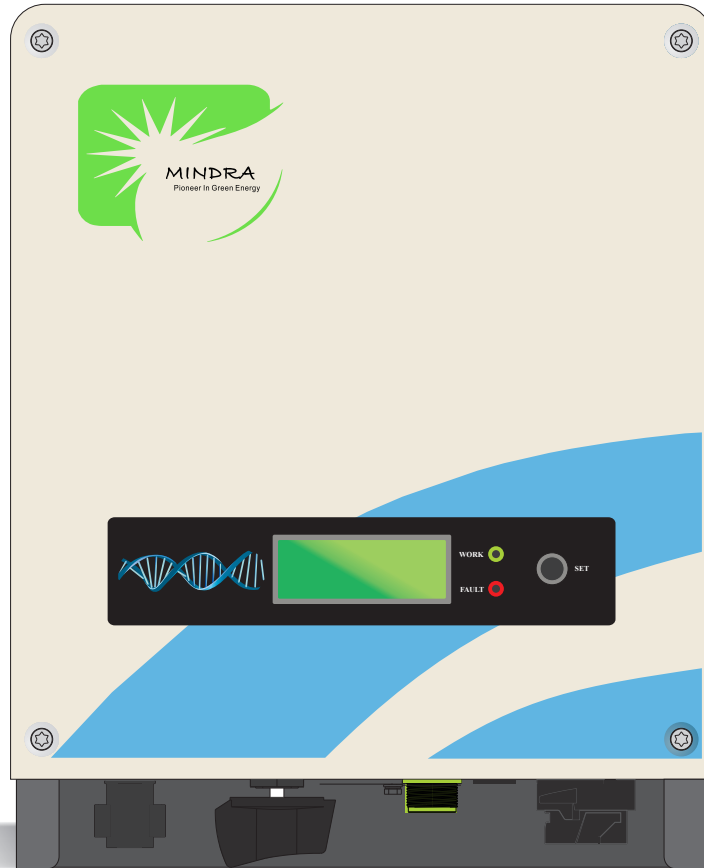


-  Service Centers AND Spare Part Centers
-  24x7 Response and Support
-  PAN India technical support with highly trained service engineer
-  PAN India service centre



# MIND-1000 / MIND-1500 / MIND-1900 / MIND-2000

PV Grid Tied String Inverter



DC/AC surge protection  
Ip65 protection



High efficiency up to 97.6%  
Smaller and lighter



Easy installation  
WiFi / GPRS Plug



Max. PV voltage up to 550V  
Single MPPT



## Technical Specifications

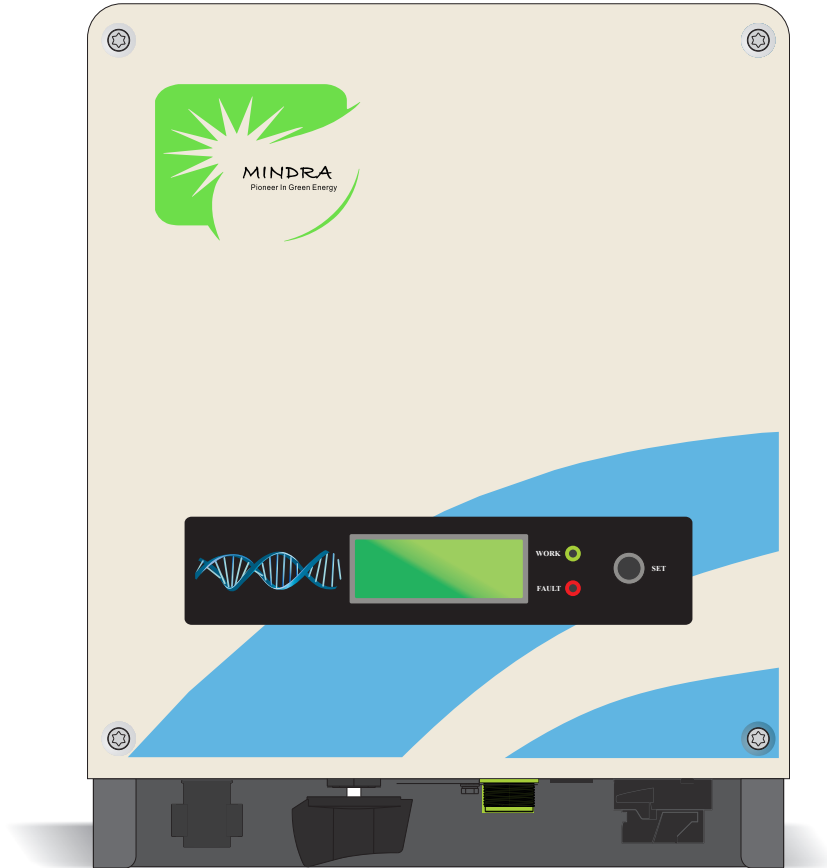
MODEL	MIND-1000	MIND-1500	MIND-1900	MIND-2000
<b>Input(DC)</b>				
Max.DC voltage / Rated DC voltage	550Vdc / 380Vdc			
MPPT voltage range	80~500Vdc			
Full load MPPT voltage range	105~400Vdc	145~400Vdc	180~400Vdc	190~400Vdc
Min. / start DC voltage	90 / 100Vdc		120 / 150Vdc	
Number of MPPT	1			
Strings per MPPT	1			
Max. input current per MPPT	11A			
<b>Output (AC)</b>				
Nominal AC output power	1000W	1500W	1900W	2000W
Maximum AC output power	1100W	1600W	2000W	2100W
Rated AC voltage	230Vac			
AC voltage range	230Vac±20%			
Rated AC grid frequency	50 / 60Hz			
AC grid frequency range	50 / 60Hz(±5Hz)			
Max. output current	4.5A	7A	9A	14A
Power factor (cosΦ)	0.8 leading ~0.8 lagging			
THDi	<3%			
AC connection	LN+PE			
Topology	Transformer-less			
<b>Efficiency</b>				
Max. efficiency	97%			
Euro efficiency	96%			
MPPT efficiency	99.90%			
Standby consumption	<5W			
<b>Protection devices</b>				
All-pole fault current monitoring unit	Yes			
AC short-circuit protection	Yes			
Ground fault protection	Yes			
<b>Physical</b>				
Dimensions W x D x H (mm)	265 x 325 x 126			
Weight(kg)	7.6	8.1		
<b>Environment</b>				
Operating temperature range	-25°C~+60°C			
Noise emission (typical)	<25dB			
Cooling type	Natural cooling			
Protection rating	IP65			
<b>Features</b>				
LCD display	Yes			
Interfaces	Rs485/WiFi / GPRS			



# MIND-2200 / MIND-2600 / MIND-3000 / MIND-3200

PV Grid Tied String Inverter

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DC/AC surge protection  
Ip65 protection



High efficiency up to 97.6%  
Smaller and lighter



Easy installation  
WiFi / GPRS Plug



Max. PV voltage up to 550V  
Single MPPT





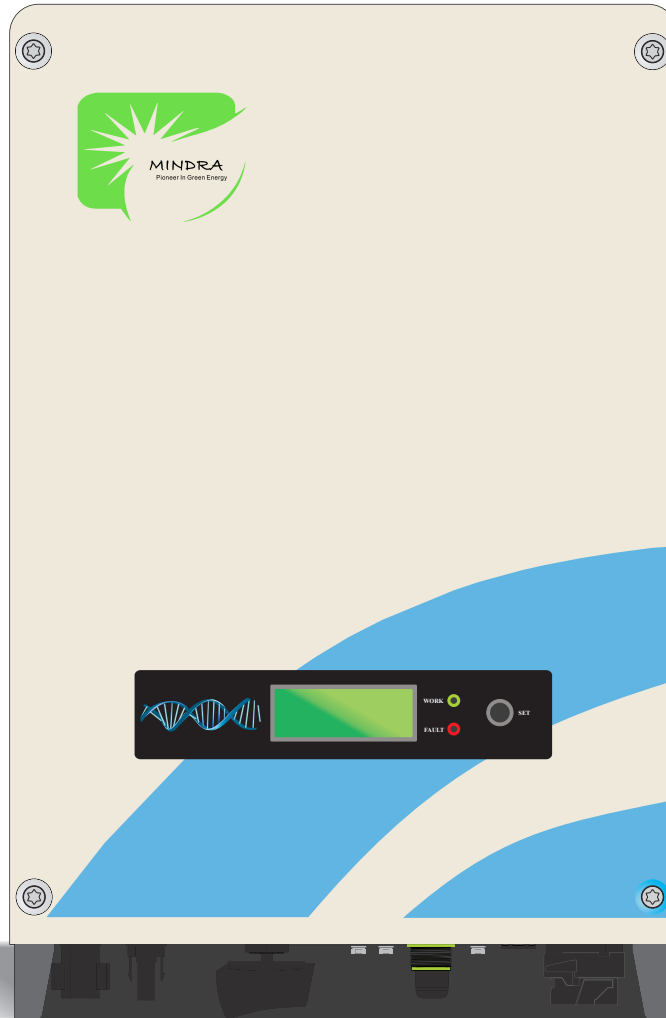
## Technical Specifications

MODEL	MIND-2200	MIND-2600	MIND-3000	MIND-3200
<b>Input(DC)</b>				
Max. DC voltage / Rated DC voltage	550Vdc / 380Vdc			
MPPT voltage range	80~500Vdc			
Min. / start DC voltage	120/100Vdc			
Number of MPPT	1			
Strings per MPPT	1			
Max. input current per MPPT	11A	13A		
Rated input current	11A	13A		
<b>Output (AC)</b>				
Nominal AC output power	2200W	2600W	3000W	3200W
Maximum AC output power	2300W	2700W	3100W	3300W
Rated AC voltage	230Vac			
AC voltage range	230Vac±20%			
Rated AC grid frequency	50 / 60Hz			
AC grid frequency range	50 / 60Hz(±5Hz)			
Max. output current	9.5A	11.5A	12.5A	11A
Power factor (cosΦ)	0.8 leading ~0.8 lagging			
THDi	<3%			
AC connection	LN+PE			
Topology	Transformer-less			
<b>Efficiency</b>				
Max. efficiency	97%	97.5%	97.6%	
Euro efficiency	96.5%	97.0%		
MPPT efficiency	99.90%			
Standby consumption	<5W<1W			
<b>Protection devices</b>				
All-pole fault current monitoring unit	Yes			
AC short-circuit protection	Yes			
Ground fault protection	Yes			
<b>Physical</b>				
Dimensions W x D x H (mm)	265 x 325 x 126			
Weight(kg)	8.1	8.6		
<b>Environment</b>				
Operating temperature range	-25°C~+60°C			
Noise emission (typical)	<25dB			
Cooling type	Natural cooling			
Protection rating	IP65			
<b>Features</b>				
LCD display	Yes			
Interfaces	Rs485/WiFi/GPRS			



# MIND-3200 / MIND-3600 / MIND-3900 / MIND-4000 / MIND-4200

PV Grid Tied String Inverter



DC/AC surge protection  
Ip65 protection



High efficiency up to 97.6%  
Smaller and lighter



Easy installation  
WiFi / GPRS Plug



Max. PV voltage up to 550V  
Single MPPT



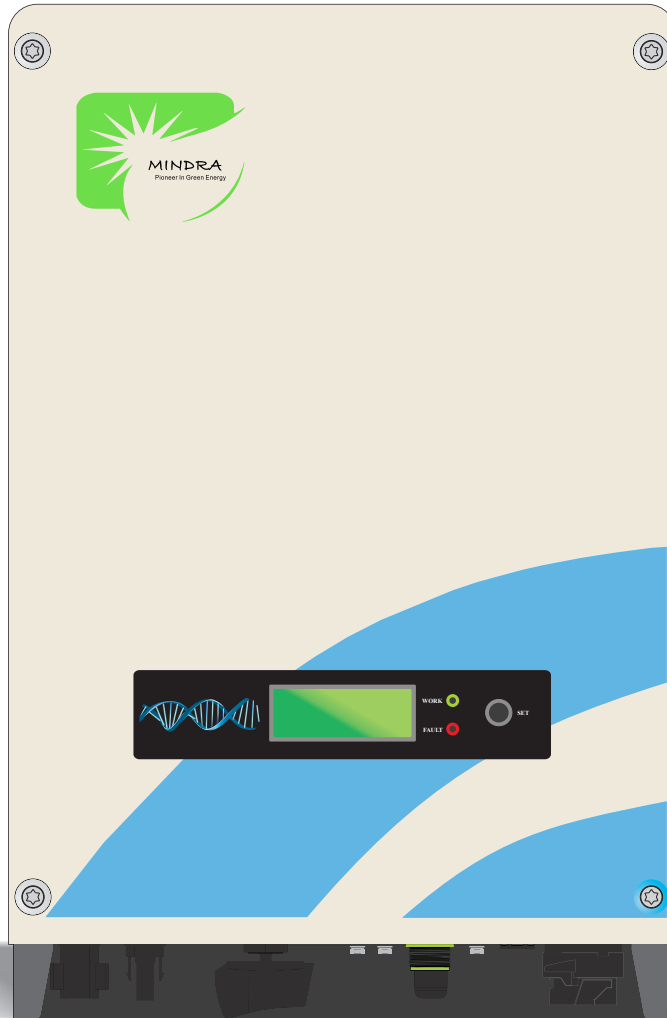
## Technical Specifications

MODEL	MIND-3200	MIND-3600	MIND-3900	MIND-4000	MIND-4200
<b>Input(DC)</b>					
Max. DC voltage / Rated DC voltage	550Vdc / 380Vdc				
MPPT voltage range	80~500Vdc				
Full load MPPT voltage range	151~400Vdc	144~400Vdc	156~400Vdc	160~400Vdc	168~400Vdc
Min. / start DC voltage	120 / 150Vdc				
Number of MPPT	2				
Strings per MPPT	1				
Max. DC power per MPPT	1800W	2200W	2500W	3000W	
Max. input current per MPPT	11A/11A	13A/13A			
<b>Output (AC)</b>					
Nominal AC output power	3200W	3600W	3900W	4000W	4200W
Maximum AC output power	3300W	3700W	4000W	4100W	4300W
Rated AC voltage	230Vac				
AC voltage range	230Vac±20%				
Rated AC grid frequency	50 / 60Hz				
AC grid frequency range	50 / 60Hz(±5Hz)				
Max. output current	14A	15.6A	17A	17.5A	18A
Power factor (cosΦ)	0.8 leading ~0.8 lagging				
THDi	<3%				
AC connection	LN+PE				
Topology	Transformer-less				
<b>Efficiency</b>					
Max. efficiency	97.5%				
Euro efficiency	96.5%				
MPPT efficiency	99.90%				
Standby consumption	<5W/<1W				
<b>Protection devices</b>					
All-pole fault current monitoring unit	Yes				
AC short-circuit protection	Yes				
Ground fault protection	Yes				
<b>Physical</b>					
Dimensions W × D × H (mm)	317 x 466 x 150				
Weight(kg)	14.5	14.7	14.9		
<b>Environment</b>					
Operating temperature range	-25°C~+60°C				
Noise emission (typical)	<25dB				
Cooling type	Natural cooling				
Protection rating	IP65				
<b>Features</b>					
LCD display	Yes				
Interfaces	Rs485/WiFi/GPRS				



# MIND-4600 / MIND-5000 / MIND-5200 / MIND-6000

PV Grid Tied String Inverter



DC/AC surge protection  
Ip65 protection



High efficiency up to 97.6%  
Smaller and lighter



Easy installation  
WiFi / GPRS Plug



Max. PV voltage up to 550V  
Double MPPT



## Technical Specifications

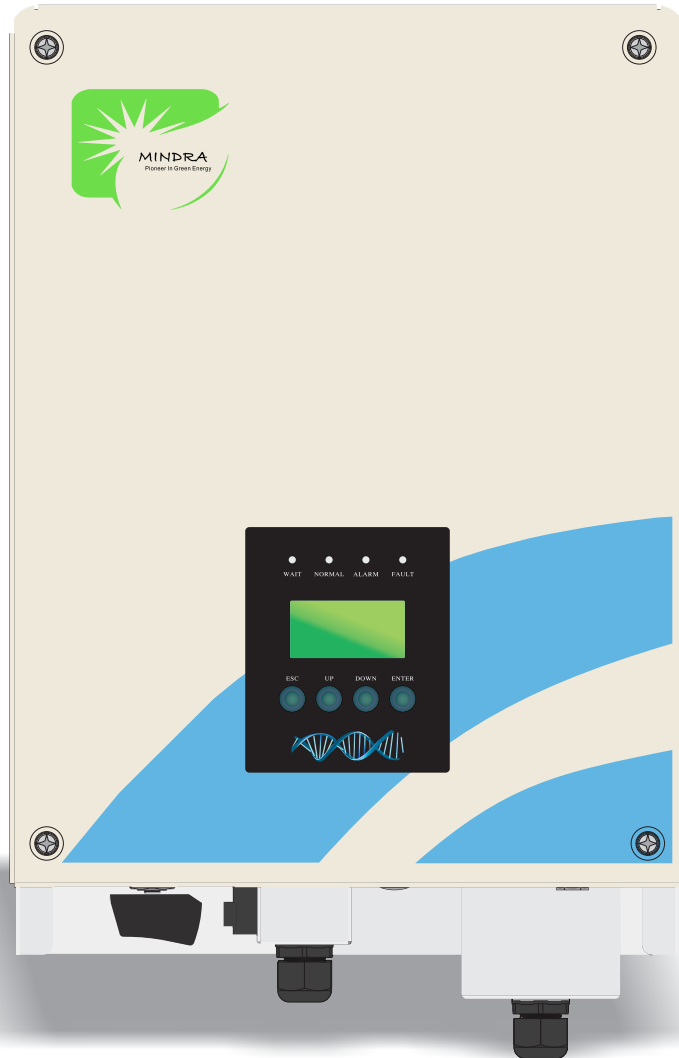
MODEL	MIND-4600	MIND-5000	MIND-5200	MIND-6000
<b>Input(DC)</b>				
Max. DC voltage / Rated DC voltage	550Vdc / 380Vdc			
MPPT voltage range	80~500Vdc			
Min. / start DC voltage	120/150Vdc			
Number of MPPT	2			
Strings per MPPT	1			
DC Switch	Yes			
Rated input current	13A/13A			
Max. input current per MPPT	13A/13A			
<b>Output (AC)</b>				
Nominal AC output power	4600W	5000W	5200W	6000W
Maximum AC output power	4700W	5100W	5300W	6100W
Rated AC voltage	230Vac			
AC voltage range	230Vac±20%			
Rated AC grid frequency	50 / 60Hz			
AC grid frequency range	50 / 60Hz(±5Hz)			
Max. output current	20A	21.5A	22A	22.5A
Power factor (cosΦ)	0.8 leading ~0.8 lagging			
THDi	<3%			
AC connection	LN+PE			
Topology	Transformer-less			
<b>Efficiency</b>				
Max. efficiency	97.5%			
Euro efficiency	96.5%			
MPPT efficiency	99.9%			
Standby consumption	<5W/1W			
<b>Protection devices</b>				
All-pole fault current monitoring unit	Yes			
AC short-circuit protection	Yes			
Ground fault protection	Yes			
<b>Physical</b>				
Dimensions W x D x H (mm)	317 x 466 x 150			
Weight(kg)	15.5			
<b>Environment</b>				
Operating temperature range	-25°C~+60°C			
Noise emission (typical)	<25dB			
Cooling type	Natural cooling			
Protection rating	IP65			
<b>Features</b>				
LCD display	Yes			
Interfaces	Rs485/WiFi/GPRS			





# MIND-5K / MIND-8K / MIND-10K

PV Grid Tied String Inverter



DC/AC surge protection  
Ip65 protection



High efficiency up to 97.6%  
Smaller and lighter



Easy installation  
WiFi / GPRS Plug



Max. PV voltage up to 550V  
Single MPPT



## Technical Specifications

MODEL	MIND-5K	MIND-8K	MIND-10K
<b>Input(DC)</b>			
Max.DC voltage /Rated DC voltage	1000Vdc		
MPPT voltage range	250~950Vdc		
Full load MPPT voltage range	480~800Vdc		
Rated DC Voltage	620Vdc		
Min. / start DC voltage	250/250Vdc		
Number of MPPT	2		
Strings per MPPT	1		
Max. input current per MPPT	7A/7A	13A/13A	
<b>Output (AC)</b>			
Nominal AC output power	5kW	8kW	10kW
Maximum AC output power	5.1kW	8.8kW	11kW
Rated AC voltage	400Vac		
AC voltage range	400Vac±20%		
Rated AC grid frequency	50 / 60Hz		
AC grid frequency range	50 / 60Hz(±5Hz)		
Max. output current	23A	15A	17A
Power factor (cosΦ)	0.8 leading ~0.8 lagging		
THDi	<3%		
AC connection	3W+N+PE/3W+PE		
Topology	Transformer-less		
<b>Efficiency</b>			
Max. efficiency	98%		
Euro efficiency	97.5%		
<b>Protection devices</b>			
AC leakage current fault protection	Yes		
Ground fault protection	Yes		
Anti-islanding protection	Yes		
DC overvoltage protection	Yes		
DC surge protection	Yes		
AC surge protection	Yes		
DC reverse-polarity protection	Yes		
<b>Physical</b>			
Dimensions W x D x H (mm)	553 x 715 x 228		
Weight(kg)	35	39	
<b>Environment</b>			
Operating temperature range	-25°C~+60°C		
Noise emission (typical)	<40dB		
Cooling type	Natural cooling		
Protection rating	IP65		
<b>Features</b>			
LCD display	Yes		
Interfaces	Rs485/WiFi / GPRS		



# MIND-12K / MIND-15K / MIND-17K / MIND-20K

PV Grid Tied String Inverter



DC/AC surge protection  
Ip65 protection



High efficiency up to 97.6%  
Smaller and lighter



Easy installation  
WiFi / GPRS Plug



Max. PV voltage up to 550V  
Single MPPT

## Technical Specifications

MODEL	MIND-12K	MIND-15K	MIND-17K	MIND-20K
<b>Input(DC)</b>				
Max.DC voltage /Rated DC voltage	1000Vdc			
MPPT voltage range	250~950Vdc			
Full load MPPT voltage range	480~800Vdc			
Rated DC Voltage	620Vdc			
Min. / start DC voltage	250/250Vdc			
Number of MPPT	2			
Strings per MPPT	2			
Max. input current per MPPT	21A/21A			
<b>Output (AC)</b>				
Nominal AC output power	12kW	15kW	17kW	20kW
Maximum AC output power	13kW	16kW	18kW	21kW
Rated AC voltage	400Vac			
AC voltage range	400Vac±20%			
Rated AC grid frequency	50 / 60Hz			
AC grid frequency range	50 / 60Hz(±5Hz)			
Max. output current	20A	24A	27A	32A
Power factor (cosΦ)	0.8 leading ~0.8 lagging			
THDi	<3%			
AC connection	3W+N+PE/3W+PE			
Topology	Transformer-less			
<b>Efficiency</b>				
Max. efficiency	98%			
Euro efficiency	97.5%			
<b>Protection devices</b>				
AC leakage current fault protection	Yes			
Ground fault protection	Yes			
Anti-islanding protection	Yes			
DC overvoltage protection	Yes			
DC surge protection	Yes			
AC surge protection	Yes			
DC reverse-polarity protection	Yes			
<b>Physical</b>				
Dimensions W x D x H (mm)	553 x 715 x 228			
Weight(kg)	35	39		
<b>Environment</b>				
Operating temperature range	-25°C~+60°C			
Noise emission (typical)	<40dB			
Cooling type	Natural cooling			
Protection rating	IP65			
<b>Features</b>				
LCD display	Yes			
Interfaces	Rs485/WiFi / GPRS			

# Monitoring System

## WiFi Plug / GPRS Plug Wireless Communication Module



### Model

### GPRS PLUG/ WIFI PLUG

Quantity of Connected Inverter	1
Inverter Communication Interface	RS485
Remote Communication Interface	GPRS,WiFi (802.11b/g/n)
Radio Operating Frequency	900/1800MHz(GPRS)2.4GHz(Wifi)
Data Acquisition Interval	Default 5 minutes/1~15 minutes optional
Data Storage	EEPROM
Data Access Mode	Remote server/WiFi point-to-point
Operating Humidity	10~90%(Relative humidity,non-condensing)
Operating Temperature	-30°C ~ +85°C
Protection Rating	IP65



# PC Website / Mobile APP Monitoring System



- Remote access & communication
- Easy-to-use large-screen display
- High capacity server cloud backup
- Speedy and Stable
- Real-time online monitoring
- From anywhere at anytime



# Green Technology Benefit Mankind



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FOR THIS MANUAL



MINDRA GREEN ENERGY LLP