

MI Series Off-grid Single-phase Inverter



Applications

- Application in wind, Solar, Wind&Solar hybrid power generation station.
- Application in household wind&solar hybrid power generation system.
- Power supply for those unmanned regions like the coastal islands, remote mountainous regions and border posts.

Features

- Can be applied in wind, solar, wind&solar hybrid power generation system.
- Simple structure, complete function
- Low no-load loss by using industrial frequency transformer
- CE certification

Technical Parameters

Model	WI20-48	WI20-120	WI30-48	WI30-240	WI50-240
DC Input Parameters					
Rated battery voltage	48Vdc	120Vdc	48Vdc	240Vdc	240Vdc
Input overvoltage point	68Vdc	170Vdc	68Vdc	340Vdc	340Vdc
Input overvoltage recovery point	66Vdc	165Vdc	66Vdc	330Vdc	330Vdc
Input undervoltage point	43.2Vdc	108Vdc	43.2Vdc	216Vdc	216Vdc
Input undervoltage recovery point	48Vdc	120Vdc	48Vdc	240Vdc	240Vdc
AC Output Parameters					
Output phase number	Single phase				
Rated output power	2KVA	2KVA	3KVA	3KVA	5KVA
Rated output voltage	110/120/220/230/240Vac				
Rated output frequency	50/60±0.5HZ				
THDi	<5%				
Efficiency					
Max. conversion efficiency	≥85%				
Protection Functions					
DC input overvoltage/undervoltage protection	YES				
DC reversed connection protection	YES				
AC output overload protection	YES				
AC short circuit protection	YES				
Surge protection	YES				
Over-temperature protection	YES				
General Parameters					

Display mode	LCD				
Display information	Battery voltage, inverter voltage, inverter current, inverter power, and working status of battery overvoltage/undervoltage and AC output overload/short circuit.				
Isolation mode	Industrial frequency isolation				
No-load current	≤0.6A	≤0.3A	≤0.6A	≤0.15A	≤0.5A
Ambient temperature	-20℃~+40℃				
Humidity	0~90%, No condensing				
Noise	<60dB				
Cooling mode	Natural cooling				
Cover protection class	IP20				
Product dimension (W*H*D)	235*352*400mm			320×525×560mm	
Product net weight	20kg	27kg		47.5kg	
Note: Part of parameters can be adjusted according to customer's specific demand.					



5kVA economical version

Model	WI50-48
DC Input Parameters	
Rated battery voltage	48Vdc
Input overvoltage point	68Vdc
Input overvoltage recovery point	66Vdc
Input undervoltage point	43.2Vdc
Input undervoltage recovery point	48Vdc
AC Output Parameters	
Output phase number	Single phase
Rated output power	5KVA
Rated output voltage	110/120/220/230/240Vac
Rated output frequency	50/60±0.5HZ
THDi	<5%
Efficiency	
Max. conversion efficiency	≥85%
Protection Functions	
DC input overvoltage/undervoltage protection	YES
DC reversed connection protection	YES
AC output overload protection	YES
AC short circuit protection	YES

Surge protection	YES
Over-temperature protection	YES
General Parameters	
Display mode	LCD
Display information	Battery voltage, inverter voltage, inverter current, inverter power, and working status of battery overvoltage/ undervoltage and AC output overload/short circuit.
Isolation mode	Industrial frequency isolation
No-load current	$\leq 1.6A$
Ambient temperature	$-20^{\circ}C \sim +40^{\circ}C$
Humidity	0~90%, No condensing
Noise	<60dB
Cooling mode	Forced air cooling
Cover protection class	IP20
Product dimension (W*H*D)	600*200*600mm
Product net weight	37kg
Note: Part of parameters can be adjusted according to customer's specific demand.	



5kVA 96/120V

Model	WI50-96	WI50-120
DC Input Parameters		
Rated battery voltage	96Vdc	120Vdc
Input overvoltage point	136Vdc	170Vdc
Input overvoltage recovery point	132Vdc	165Vdc
Input undervoltage point	86.4Vdc	108Vdc
Input undervoltage recovery point	96Vdc	120Vdc
AC Output Parameters		
Output phase number	Single phase	
Rated output power	5kVA	
Rated output voltage	110/120/220/230/240Vac	
Rated output frequency	50/60±0.5HZ	
THDi	<5%	
Efficiency		
Max. conversion efficiency	≥85%	
Protection Functions		
DC input overvoltage/undervoltage protection	YES	

DC reversed connection protection	YES
AC output overload protection	YES
AC short circuit protection	YES
Surge protection	YES
Over-temperature protection	YES
General Parameters	
Display mode	LCD
Display information	Battery voltage, inverter voltage, inverter current, inverter power, and working status of battery overvoltage/undervoltage and AC output overload/short circuit.
Isolation mode	Industrial frequency isolation
No-load current	≤0.5A
Ambient temperature	-20℃ ~ +40℃
Humidity	0~90%, No condensing
Noise	<60dB
Cooling mode	Forced air cooling
Cover protection class	IP20
Product dimension (W*H*D)	500×725×500mm
Product net weight	65kG
Note: Part of parameters can be adjusted according to customer's specific demand.	