

## String Inverter



Make our home energy self-sufficient.



Safer

Protection for lightning, islanding, reverse polarity, over current/voltage, AC short-circuit; Compliant with NEC2014&2017 for rapid shutdown



Smarter

Easy for parameter setting & firmware updates remotely; Export output control within 0.5s response speed & detection accuracy within 20W; Built-in self-test program



More Flexible

Complete solutions for residential, commercial & industrial applications with multiple choices of inverter range from 1kW to 80kW



More Powerful

Maximum efficiency up to 98.9%; 4 MPPTs make the best yield of solar module arrays; Advanced MPPT algorithm to ensure faster response to light changes



More Reliable

Wide output voltage range(Max.277/460Vac)for unstable grid; Film capacitor with 200,000+ hours lifetime to ensure 25-year lifespan of inverter

## 1kW-2kW-3kW-3.6kW-5kW-6kW



**5-10**  
Year  
Product  
Warranty

**50+**  
Country  
Global  
Application

**97.5%**  
Max.  
Efficiency

Input Data	KY-1K	KY-2K	KY-3K	KY-3.6K	KY-5K	KY-6K
Max.DC Power(kW)	1.3	2.6	3.6	4.68	6.5	6.6
Max.DC Input Voltage (V)	500					
Start-up DC Input Voltage(V)	80	120	120	120	120	120
MPPT Operating Range(V)	70~500	100~500	100~500	100~500	100~500	100~500
Max.DC Input Current(A)	10	10	10	10+10	10+10	10+10
No. of MPPT/Strings per MPPT	1/1	1/1	1/1	2/1	2/1	2/1

Output Data						
Rated Output Power(kW)	1	2	3	3.6	5	6
Max. Active Power(kW)	1.1	2.2	3.3	4	5.5	6.6
Rated AC Grid Voltage(V)	230					
AC Grid Voltage Range(V)	160~300	160~300	160~300	180~300	180~300	180~300
Rated Grid Frequency(Hz)	50/60(Optional)					
Operating Phase	Single phase					
Rated AC Grid Output Current(A)	4.3	8.7	13.1	16	22	26
Max.AC Output Current(A)	4.7	9.6	14	18	24	29
Output Power Factor	>0.99					
Grid Current THD	<3%					
DC Injection Current(mA)	<0.5%					
Grid Frequency Range	47~52 or 57~62(Optional)					

### Protection

DC Reverse-Polarity Protection	Yes
AC Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Insulation Resistance Protection	Yes
Ground Fault Monitoring	Yes
Surge Protection	Yes
Islanding Protection	Yes
Temperature Protection	Yes
Integrated DC Switch	Optional

### Efficiency

Max.Efficiency	97.3%	97.3%	97.5%	97.3%	97.5%	97.5%
Euro Efficiency	97.1%	97.1%	97.3%	97.1%	97.3%	97.3%
MPPT Efficiency	>99%					

### Features

DC Connection	MC-4 mateable
AC Connection	IP65 rated plug
Display	LCD1602
Interface	RS485/RS232

### General Data

Topology	Transformerless	Size(mm)	330W×347.5H×127D/127D/127D/179D/179D/179D			
Internal Consumption	<1W(Night)	Weight(kg)	7	7	7	12.5
Running Temperature	-25~60°C	Designed Lifetime	>20 years			
Ingress Protection	IP65	Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2			
Noise Emission(Typical)	<30 dB	Operating Surroundings Humidity	0-100%			
Cooling Concept	Intelligent cooling	Staffy EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3			
Max. Operating Altitude Without Derating	2000m					

## 5kW-6kW-7kW-8kW-10kW



**5-10**  
Year  
Product  
Warranty

**50+**  
Country  
Global  
Application

**98.3%**  
Max.  
Efficiency

### Protection

DC Reverse-Polarity Protection	Yes
AC Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Insulation Resistance Protection	Yes
Ground Fault Monitoring	Yes
Surge Protection	Yes
Islanding Protection	Yes
Temperature Protection	Yes
Integrated DC Switch	Optional

### Input Data

	KY-5K-3	KY-6K-3	KY-7K-3	KY-8K-3	KY-10K-3
Max.DC Power(kW)	6.5	7.8	9.1	10.4	12
Max.DC Input Voltage (V)	900				
Start-up DC Input Voltage(V)	250				
MPPT Operating Range(V)	200~800				
Max.DC Input Current(A)	10+10				
No.of MPPT/Strings per MPPT	2/1				

### Output Data

Rated Output Power(kW)	5	6	7	8	10
Max. Active Power(kW)	5.5	6.6	7.7	8.8	11
Rated AC Grid Voltage(V)	380/400				
AC Grid Voltage Range(V)	277~460				
Rated Grid Frequency(Hz)	50/60(Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current(A)	7.2	8.7	10.1	11.6	14.5
Max.AC Output Current(A)	8	9.57	11.11	12.76	16
Output Power Factor	>0.99				
Grid Current THD	<3%				
DC Injection Current(mA)	<0.5%				
Grid Frequency Range	47~52 or 57~62(Optional)				

### Efficiency

Max.Efficiency	98.3%
Euro Efficiency	97.5%
MPPT Efficiency	>99%

### Features

DC Connection	MC-4 mateable
AC Connection	IP65 rated plug
Display	LCD1602
Interface	RS485/RS232

### General Data

Size(mm)	385W×479H×184D	Cooling Concept	Intelligent cooling
Weight(kg)	15	Max. Operating Altitude Without Derating	2000m
Topology	Transformerless	Designed Lifetime	>20 years
Internal Consumption	<1W(Night)	Grid Connection Standard	EN50438 , IEC61727 , VDE4105 , NB/T32004(CQC) , IEC62109-1-2
Running Temperature	-25~60°C	Operating Surroundings Humidity	0-100%
Ingress Protection	IP65	Staffy EMC /Standard	IEC62109-1/-2 , EN61000-6-1 , EN61000-6-3
Noise Emission(Typical)	<30 dB		

## 12kW·15kW·20kW·25kW



**5**  
Year  
Product  
Warranty

**50+**  
Country  
Global  
Application

**98.6%**  
Max.  
Efficiency

### Protection

DC Reverse-Polarity Protection	Yes
AC Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Insulation Resistance Protection	Yes
Ground Fault Monitoring	Yes
Surge Protection	Yes
Islanding Protection	Yes
Temperature Protection	Yes
Integrated DC Switch	Optional

### Input Data

	KY-12K-3	KY-15K-3	KY-20K-3	KY-25K-3
Max.DC Power(kW)	15.6	18	24	32.5
Max.DC Input Voltage (V)	1000			
Start-up DC Input Voltage(V)	250			
MPPT Operating Range(V)	200~800			
Max.DC Input Current(A)	20+20	20+20	20+20	30+30
No.of MPPT/Strings per MPPT	2/2	2/2	2/2	2/3

### Output Data

Rated Output Power(kW)	12	15	20	25
Max. Active Power(kW)	13.2	16.5	22	27.5
Rated AC Grid Voltage(V)	380/400			
AC Grid Voltage Range(V)	277~460			
Rated Grid Frequency(Hz)	50/60(Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current(A)	17.4	21.8	29	36.2
Max.AC Output Current(A)	19.14	24	31.9	39.9
Output Power Factor	>0.99			
Grid Current THD	<3%			
DC Injection Current(mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62(Optional)			

### Efficiency

Max.Efficiency	98.6%
Euro Efficiency	97.8%
MPPT Efficiency	>99%

### Features

DC Connection	MC-4 mateable
AC Connection	IP65 rated plug
Display	LCD1602/LCD240X160
Interface	RS485/RS232

### General Data

Size(mm)	455W×573H×265D	Cooling Concept	Intelligent cooling
Weight(kg)	30.5	Max. Operating Altitude Without Derating	2000m
Topology	Transformerless	Designed Lifetime	>20 years
Internal Consumption	<1W(Night)	Grid Connection Standard	EN50438 , IEC61727 , VDE4105 , NB/T32004(CQC) , IEC62109-1-2
Running Temperature	-25~60°C	Operating Surroundings Humidity	0-100%
Ingress Protection	IP65	Staffy EMC /Standard	IEC62109-1/-2 , EN61000-6-1 , EN61000-6-3
Noise Emission(Typical)	<30 dB		

## 60kW·70kW·75kW·80kW



Input Data	KY-60K-3	KY-70K-3	KY-75K-3	KY-80K-3
Max.DC Power(kW)	78	91	97.5	96
Max.DC Input Voltage (V)	1000			
Start-up DC Input Voltage(V)	250			
MPPT Operating Range(V)	200~850			
Max.DC Input Current(A)	30+30+30+30	40+40+40+40	40+40+40+40	40+40+40+40
No. of MPPT/Strings per MPPT	4/3	4/4	4/4	4/4

Output Data				
Rated Output Power(kW)	60	70	75	80
Max. Active Power(kW)	66	77	82.5	88
Rated AC Grid Voltage(V)	380/400			
AC Grid Voltage Range(V)	277~460			
Rated Grid Frequency(Hz)	50/60(Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current(A)	87.8	101.5	108.7	115.9
Max.AC Output Current(A)	95.7	111.6	119.6	127.5
Output Power Factor	>0.99			
Grid Current THD	<3%			
DC Injection Current(mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62(Optional)			

### Protection

DC Reverse-Polarity Protection	Yes
AC Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Insulation Resistance Protection	Yes
Ground Fault Monitoring	Yes
Surge Protection	Yes
Islanding Protection	Yes
Temperature Protection	Yes
Integrated DC Switch	Optional

### Efficiency

Max.Efficiency	98.9%
Euro Efficiency	98.3%
MPPT Efficiency	>99%

### Features

DC Connection	MC-4 mateable
AC Connection	IP65 rated plug
Display	LCD240X160
Interface	RS485/RS232

### General Data

Size(mm)	700W×684H×307D	Cooling Concept	Intelligent cooling
Weight(kg)	60	Max. Operating Altitude Without Derating	2000m
Topology	Transformerless	Designed Lifetime	>20 years
Internal Consumption	<1W(Night)	Grid Connection Standard	EN50438 , IEC61727 , VDE4105 , NB/T32004(CQC) , IEC62109-1-2
Running Temperature	-25~60°C	Operating Surroundings Humidity	0-100%
Ingress Protection	IP65	Staffy EMC /Standard	IEC62109-1/-2 , AS3100 , EN61000-6-1
Noise Emission(Typical)	<30 dB		

## 30kW-33kW-35kW-40kW-50kW



**5**  
Year  
Product  
Warranty

**50+**  
Country  
Global  
Application

**98.7%**  
Max.  
Efficiency

Protection	
DC Reverse-Polarity Protection	Yes
AC Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Insulation Resistance Protection	Yes
Ground Fault Monitoring	Yes
Surge Protection	Yes
Islanding Protection	Yes
Temperature Protection	Yes
Integrated DC Switch	Optional

Input Data	KY-30K-3	KY-33K-3	KY-35K-3	KY-40K-3	KY-50K-3
Max.DC Power(kW)	36	36	39.6	52	65
Max.DC Input Voltage (V)	1000				
Start-up DC Input Voltage(V)	250				
MPPT Operating Range(V)	200~850				
Max.DC Input Current(A)	30+30	30+30	30+30	30+30+30	30+30+30+30
No. of MPPT/Strings per MPPT	2/3	2/3	2/3	3/3	4/3

Output Data					
Rated Output Power(kW)	30	33	35	40	50
Max. Active Power(kW)	33	36.3	38.5	44	55
Rated AC Grid Voltage(V)	380/400				
AC Grid Voltage Range(V)	277~460				
Rated Grid Frequency(Hz)	50/60(Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current(A)	43.5	48	50.7	58	72.4
Max.AC Output Current(A)	47.85	52.8	55.8	63.8	79.64
Output Power Factor	>0.99				
Grid Current THD	<3%				
DC Injection Current(mA)	<0.5%				
Grid Frequency Range	47~52 or 57~62(Optional)				

Efficiency	
Max.Efficiency	98.7%
Euro Efficiency	98.3%
MPPT Efficiency	>99%

Features	
DC Connection	MC-4 mateable
AC Connection	IP65 rated plug
Display	LCD240X160
Interface	RS485/RS232

General Data			
Size(mm)	700W×684H×307D	Cooling Concept	Intelligent cooling
Weight(kg)	55	Max. Operating Altitude Without Derating	2000m
Topology	Transformerless	Designed Lifetime	>20 years
Internal Consumption	<1W(Night)	Grid Connection Standard	EN50438 , IEC61727 , VDE4105 , NB/T32004(CQC) , IEC62109-1-2
Running Temperature	-25~60°C	Operating Surroundings Humidity	0-100%
Ingress Protection	IP65	Staffy EMC /Standard	IEC62109-1/-2 , AS3100 , EN61000-6-1
Noise Emission(Typical)	<30 dB		

