



Intelligent

Reliable

Safe

Efficient



- 1. Max Efficiency of 97.5% and wide input range.
- 2. Single MPPT design with accurate MPPT algorithm.
- 3. Intelligent cooling, IP65 protection.
- 4. Compact and light design for easy Installation.
- 5. Transformerless GT topology.
- 6. RS485, WiFi Interface.
- 7. Numerous protection functions.
- 8. Optional build in Anti-Overflow function.
- 9. 5 years standard warranty, 25 years lifespan design.

Leading features:

No fan
Radiating

Super wide
voltage range

WiFi
Real-time monitoring

IP65

Technical Specifications

Model	CAT-1K-G	CAT-2K-G	CAT-3K-G
Energy source	Grid-connected PV		
Input Side			
Max.DC Power(kW)	1.1	2.2	3.3
Max.DC Input Voltage(V)	500		
Start-up DC Input Voltage(V)	80	120	120
MPPT Operating Range(V)	70-500	100-500	100-550
Max.DC Input Current(A)	10A		
Number of MPPT/Number of Strings	1/1		
Output Side			
Rated Output Power(kW)	1.0	2.0	3
Max. Active Power(kW)	1.1	2.2	3.3
Rated AC Grid Voltage(V)	220		
AC Grid Voltage Range(V)	160-270		
Rated Grid Frequency(Hz)	50/60 (Optional)		
Operating Phase	Single phase		
Rated AC Grid Output Current(A)	4.3	8.7	13.1
Max.AC Output Current(A)	4.7	9.6	14
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	97.3%	97.3%	97.5%
Euro Efficiency	97.1%	97.1%	97.3%
MPPT Efficiency	>99%		
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		
General Data			
Size(mm)	330W*347.5H*127D		
Weight(kg)	10.2		
Topology	Transformerless		
Internal Consumption	<2W(Night)		
Running Temperature	-25-60 C		
Ingress Protection	IP65		
Noise Emission(Typical)	<30 dB		
Cooling Concept	Intelligent cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	EN50438,IEC61727,VDE4105 ,NB/T32004(CQC),IEC62109-1-2		
Operating Surroundings Humidity	0-100%		
Stafy EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232		



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Leading features:

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IP65

Technical Specifications

Model	CAT-3.6K-G	CAT-5K-G	CAT-6K-G
Energy source	Grid-connected PV		
Input Side			
Max.DC Power(kW)	3.96	5.5	6.6
Max.DC Input Voltage(V)	600		
Start-up DC Input Voltage(V)	120		
MPPT Operating Range(V)	100-550V		
Max.DC Input Current(A)	10A+10A		
Number of MPP/Number of Strings	2/2		
Output Side			
Rated Output Power(kW)	3.6	5	6
Max. Active Power(kW)	4	5.5	6.6
Rated AC Grid Voltage(V)	220		
AC Grid Voltage Range(V)	180-270		
Rated Grid Frequency(Hz)	50/60 (Optional)		
Operating Phase	Single phase		
Rated AC Grid Output Current(A)	16	22	26
Max.AC Output Current(A)	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)		
Efficiency			
Max. Efficiency	97.3%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%
MPPT Efficiency	>99%		
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		
General Data			
Size(mm)	330W*347.5H*179D		
Weight(kg)	15		
Topology	Transformerless		
Internal Consumption	<2W(Night)		
Running Temperature	-25-60 C		
Ingress Protection	IP65		
Noise Emission(Typical)	<30 dB		
Cooling Concept	Intelligent Cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	EN50438,IEC61727,VDE4105 ,NB/T32004(CQC),IEC62109-1-2		
Operating Surroundings Humidity	0-100%		
Stafy EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232		



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Technical Specifications

Model	CAT-5K-G	CAT-6K-G	CAT-7K-G	CAT-8K-G	CAT-10K-G	CAT-12K-G
Energy source	Grid-connected PV					
Input Side						
Max.DC Power(kW)	5.5	6.6	7.7	7	8	8
Max.DC Input Voltage(V)	900					
Start-up DC Input Voltage(V)	250					
MPPT Operating Range(V)	200-800V					
Max.DC Input Current(A)	10A+10A					
Number of MPPT/Number of Strings	2/1					
Output Side						
Rated Output Power(kW)	5	6	7	8	10	12
Max. Active Power(kW)	5.5	6.6	7.7	8.8	11	13.2
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)	7.6	8.7	10.1	11.6	15.2	17.4
Max.AC Output Current(A)	8.4	9.57	11.11	12.76	16.7	19.14
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%					
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					
General Data						
Size(mm)	385W*479H*184D					
Weight(kg)	15					
Topology	Transformerless					
Internal Consumption	<2W(Night)					
Running Temperature	-25-60 C					
Ingress Protection	IP65					
Noise Emission(Typical)	<30 dB					
Cooling Concept	Intelligent cooling					
Max. Operating Altitude Without Derating	2000m					
Designed Lifetime	>20 years					
Grid Connection Standard	EN50438, IEC61727, VDE4105, NB/T32004(CQC), IEC62109-1-2					
Operating Surroundings Humidity	0-100%					
Staffy EMC /Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD1602					
Interface	RS485/RS232					



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Technical Specifications

Model	CAT-12K-G	CAT-15K-G	CAT-20K-G	CAT-25K-G
Energy source	Grid-connected PV			
Input Side				
Max.DC Power(kW)	13.2	16.5	16.5	22
Max.DC Input Voltage(V)	1000			
Start-up DC Input Voltage(V)	250			
MPPT Operating Range(V)	200-800			
Max.DC Input Current(A)	20A+20A			
Number of MPP/Number of Strings	2/4			
Output Side				
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	22.7	29	32.2
Max.AC Output Current(A)	19.14	24.97	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	97.3%	97.3%	97.5%	98.6%
Euro Efficiency	97.1%	97.1%	97.3%	98%
MPPT Efficiency	>99%			
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			
General Data				
Size(mm)	455W*573H*265D			
Weight(kg)	28			
Topology	Transformerless			
Internal Consumption	<2W(Night)			
Running Temperature	-25-60 C			
Ingress Protection	IP65			
Noise Emission(Typical)	<30 dB			
Cooling Concept	Intelligent cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50438,IEC61727,VDE4105 ,NB/T32004(CQC),IEC62109-1-2			
Operating Surroundings Humidity	0-100%			
Stafy EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	3.5TFT			
Interface	RS485/RS232			



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Technical Specifications

Model	CAT-30K-G	CAT-33K-G	CAT-35K-G	CAT-40K-G	CAT-50K-G
Energy source	Grid-connected PV				
Input Side					
Max.DC Power(kW)	33	36.3	38.5	44	55
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
Number of MPP/Number of Strings	2/6	2/6	3/9	3/9	3/9
Output Side					
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		58	72.4
Max.AC Output Current(A)	47.85	52.8		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%				
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				
General Data					
Size(mm)	700W*575H*307D	700W*575H*307D	700W*575H*307D	700W*684H*307D	700W*684H*307D
Weight(kg)	55				
Topology	Transformerless				
Internal Consumption	<1W(Night)				
Running Temperature	-25-60 C				
Ingress Protection	IP65				
Noise Emission(Typical)	<30 dB				
Cooling Concept	Intelligent cooling				
Max. Operating Altitude Without Derating	2000m				
Designed Lifetime	>20 years				
Grid Connection Standard	EN50438,IEC61727,VDE4105 ,NB/T32004(CQC),zIEC62109-1-2				
Operating Surroundings Humidity	0-100%				
Stafy EMC /Standard	IEC62109-1/-2,AS3100,EN61000-6-1				
Features					
DC Connection	MC-4 mateable				
AC Connection	IP67 rated plug				
Display	LCD1602				
Interface	RS485/RS232				



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IP65

Technical Specifications

Model	CAT-60K-G	CAT-70K-G	CAT-75K-G	CAT-80K-G
Energy source	Grid-connected PV			
Input Side				
Max.DC Power(kW)	66	77	82.5	88
Max.DC Input Voltage(V)	1000	1100	1100	1100
Start-up DC Input Voltage(V)	250			
MPPT Operating Range(V)	200-850			
Max.DC Input Current(A)	30+30+30+30			
Number of MPPT/Number of Strings	4/12			
Output Side				
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)			
Efficiency				
Max. Efficiency	98.9%			
Euro Efficiency	98.3%			
MPPT Efficiency	>99%			
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			
General Data				
Size(mm)	700W*684H*307D			
Weight(kg)	55			
Topology	Transformerless			
Internal Consumption	<1W(Night)			
Running Temperature	-25-60 C			
Ingress Protection	IP65			
Noise Emission(Typical)	<30 dB			
Cooling Concept	Intelligent Cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50438,IEC61727,VDE4105 NB/T32004(CQC),IEC62109-1-2			
Operating Surroundings Humidity	0-100%			
Stafy EMC /Standard	IEC62109-1/-2,AS3100,EN61000-6-1			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP67 rated plug			
Display	3.5TFT			
Interface	RS485/RS232			