

# Z20 SERIES

Z20I3KD/3K6D/4K2D/5KD/3K6D-2/4K2D-2/5KD-2

## Efficiency

- ⚡ Maximum efficiency up to 97.8%.
- ⚡ European efficiency up to 97.4%.
- ⚡ MPPT efficiency over 99.5%.
- ⚡ THDi less than 1%.

## Safety

- ⚡ Up to 10 safety protection functions.
- ⚡ IP65 Protection (indoor and outdoor use).
- ⚡ 45°C full-load output.
- ⚡ Wide MPPT voltage range.

## Features

- ⚡ Lighter than similar products and optimized volume.
- ⚡ Multiple monitoring and communication options.
- ⚡ Fanless low-noise design.



## High Efficiency

Zeus Appollo Z20I3KD/3K6D/4K2D/5KD/3K6D-2/4K2D-2/5KD-2 inverter series is designed under modern industrial design concept. It is widely and flexibly used in residential rooftop units because of its wide range of voltage and current inputs. It features very high conversion efficiency and reliability. This series provides long-term and stable generating benefits. The powerful, intelligent, user friendly interface and smart design makes it most suitable for residential applications.

# Technical data

## Z20I3KD/3K6D/4K2D/5KD



Technical Data	Z20I3KD	Z20I3K6D	Z20I4K2D	Z20I5KD
<b>Input</b>				
Max.Input Power (W)	3900	4680	5460	6500
Max.Input Voltage (V)	600	600	600	600
MPPT Operating Voltage Range (V)	80~550	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80	80
Nominal Input Voltage (V)	360	360	360	360
Max. Input Current per MPPT (A)	11/11	11/11	11/11	11/11
Max. Short Circuit Current per MPPT (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8
Number of MPPT	2	2	2	2
Number of Strings per MPPT	1	1	1	1
<b>Output</b>				
Nominal Output Power (W)	3000*	3680*	4200*	5000*
Nominal Output Apparent Power (VA)	3000	3680	4200	5000
Max. AC Apparent Power (VA)	3000	3680	4200	5000
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	13.6	16	19	22.8
Nominal Output Current (A)	13.6/13	16/15.6	19/18.2	22.8/21.7
Output Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
<b>Efficiency</b>				
Max. Efficiency	97.80%	97.80%	97.80%	97.80%
European Efficiency	97.50%	97.50%	97.50%	97.50%
<b>Protection</b>				
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Surge Arrester	Type III	Type III	Type III	Type III
AC Surge Arrester	Type III	Type III	Type III	Type III
<b>General Data</b>				
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Max. Operating Altitude (m)	≤4000	< 4000	< 4000	< 4000
Cooling Method		Natural Convection		
Display		LED/LCD/WiFi+APP		
Communication		RS485 / WiFi / LAN		
Weight (Kg)	13	13	13	13
Dimension (W×H×Dmm)	354×433×147	354×433×147	354×433×147	354×433×147
Topology		Transformerless		
Night Power Consumption (W)	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65
Country of manufacture		China		

\* : For CEI 0-21 Nominal Output Power Z20I3KD is 2700, Z20I3K6D or Z20I3K6D-2 is 3350, Z20I4K2DS or Z20I4K2D-2 is 3800, Z20I5KDS or Z20I5KD-2 is 4540.

# Technical data

## Z2013K6D-2/4K2D-2/5KD-2



Technical Data	Z2013K6D-2	Z2014K2D-2	Z2015KD-2
<b>Input</b>			
Max.Input Power (W)	4680	5460	6500
Max.Input Voltage (V)	600	600	600
MPPT Operating Voltage Range (V)	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80
Nominal Input Voltage (V)	360	360	360
Max. Input Current per MPPT (A)	13/13	13/13	13/13
Max. Short Circuit Current per MPPT (A)	16.3/16.3	16.3/16.3	16.3/16.3
Number of MPPT	2	2	2
Number of Strings per MPPT	1	1	1
<b>Output</b>			
Nominal Output Power (W)	3680*	4200*	5000*
Nominal Output Apparent Power (VA)	3680	4200	5000
Max. AC Apparent Power (VA)	3680	4200	5000
Nominal Output Voltage (V)	220/230	220/230	220/230
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	16	19	22.8
Nominal Output Current (A)	16/15.6	19/18.2	22.8/21.7
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
<b>Efficiency</b>			
Max. Efficiency	97.80%	97.80%	97.80%
European Efficiency	97.50%	97.50%	97.50%
<b>Protection</b>			
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
DC Surge Arrester		Type III(Type II Optional)	
AC Surge Arrester	Type III	Type III	Type III
<b>General Data</b>			
Operating Temperature Range (°C)	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%
Max. Operating Altitude (m)	< 4000	< 4000	< 4000
Cooling Method		Natural Convection	
Display		LED/LCD/WiFi+APP/Bluetooth+APP	
Communication		RS485/WiFi / 4G/2G /LAN	
Weight (Kg)	13	13	13
Dimension (W×H×Dmm)	354×433×147	354×433×147	354×433×147
Topology		Transformerless	
Night Power Consumption (W)	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65
Country of manufacture		China	

\* : For CEI 0-21 Nominal Output Power Z2013KD is 2700,Z2013K6D or Z2013K6D-2 is 3350,Z2014K2DS or Z2014K2D-2 is 3800,Z2015KDS or Z2015KD-2 is 4540.