

Z20 SERIES Z20I3KD/3K6D/4K2D/5KD

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 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.

	Z20I3KD	Z20I3K6D
DC Input Data		
Max.recommended DC power[W]	3990	4788
Max.DC voltage [V]	600	600
Max. input current [A]	11/11	11/11
MPPT Voltage Range [V]	80~550	80~550
Min.DC voltage/Start-up voltage [V]	120	120
No. of inputs/MPP trackers	2/2	2/2
DC connector	Amphenol H4/MC4/Devalan(optional)	
Output (AC)		
Nominal AC power [W]	3000	3680
Max. AC power [W]	3000	3680
Nominal AC voltage; range [V]	230;180~270	
AC grid frequency; range [Hz]	50/60; 45~55/55~65	
Max.AC current [A]	13.6	16
Power factor	0.8 leading~0.8 lagging	
Total harmonic distortion(THD)	<3%	
Efficiency		
MPPT efficiency	99.9%	
European efficiency	>97.5%	
Max. efficiency	97.8%	
Safety Equipment		
Residual current monitoring unit	Integrated	
DC switch	Optional	
Islanding protection	Integrated	
Grid monitoring	VDE-AR-N4105, AS4777.2&3,RD1699,IEC62109-2/1,VDE0126-1-1+A1, EN50438,G83/G59	
Reference Standard		
EMC standard	EN 61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4, EN61000-3-11, EN61000-3-12	
Safety standard	IEC62109-1&-2, AS3100	
Environment		
IP protection	IP65	
Operating Temperature Range	-25 to 60°C (up 45 derating)	
Relative humidity	0~95%	
Altitude [m]	4000m (up 3000m derating)	
Noise emission(typical) [dB]	<25	
General Data		
Dimensions(W×H×D)[mm]	347×432×145mm	
Weight [kg]	14	
Housing	For outdoor and indoor	
Mounting information	Wall mounting	
Topology	Transformerless	
Cooling concept	Natural convection	
Display	LCD	
Communication interfaces	USB2.0; RS485(standard) Wi-Fi(optional)	
Standard warranty [years]	5 (10 optional)	

	Z2014K2D	Z2015KD
DC Input Data		
Max.recommended DC power[W]	5586	6650
Max.DC voltage [V]	600	600
Max. input current [A]	11/11	11/11
MPPT Voltage Range [V]	80~550	80~550
Min.DC voltage/Start-up voltage [V]	120	120
No. of inputs/MPP trackers	2/2	2/2
DC connector	Amphenol H4/MC4/Devalan(optional)	
Output (AC)		
Nominal AC power [W]	4200	5000 (4999*)
Max. AC power [W]	4200	5000 (4999*)
Nominal AC voltage; range [V]	230;180~270	
AC grid frequency; range [Hz]	50/60; 45~55/55~65	
Max.AC current [A]	19	22.8 (21.7*)
Power factor	0.8 leading~0.8 lagging	
Total harmonic distortion(THD)	<3%	<3%
Efficiency		
MPPT efficiency	99.9%	99.9%
European efficiency	>97.5%	>97.5%
Max. efficiency	97.8%	97.8%
Safety Equipment		
Residual current monitoring unit	Integrated	
DC switch	Optional	
Islanding protection	Integrated	
Grid monitoring	VDE-AR-N4105, AS4777.2&3,RD1699,IEC62109-2/1,VDE0126-1-1+A1, EN50438,G83/G59	
Reference Standard		
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Safety standard	IEC62109-1&-2, AS3100	
Environment		
IP protection	IP65	
Operating Temperature Range	-25 to 60°C (up 45 derating)	
Relative humidity	0~95%	
Altitude [m]	4000m (up 3000m derating)	
Noise emission(typical) [dB]	<25	
General Data		
Dimensions(W×H×D)[mm]	347×432×145mm	
Weight [kg]	14	
Housing	For outdoor and indoor	
Mounting information	Wall mounting	
Topology	Transformerless	
Cooling concept	Natural convection	
Display	LCD	
Communication interfaces	USB2.0; RS485(standard) Wi-Fi(optional)	
Standard warranty [years]	5 (10 optional)	

Note(s):*4999 and 21.7A for Australia.