

ZEUS APPOLLO™

Z20 Series 3KD/3K6D/4K2D/4K6D/5KD

Efficiency

- ⚡ Maximum efficiency up to 97.8%
- ⚡ Low startup voltage (120V)
- ⚡ THDi less than 1.5%
- ⚡ 45°C full-load output
- ⚡ Wide MPPT voltage range

Features

- ⚡ User-friendly large LCD
- ⚡ Remote monitoring via Wi-Fi
- ⚡ IP65 protection (Suitable for indoor and outdoor use)
- ⚡ Earth fault monitoring function
- ⚡ Receive email notifications in the event of a fault
- ⚡ Zero-export and export-limiting function
- ⚡ High-quality componentry built to withstand the harsh Australian environment



Z20 Series Dual MPPT Inverter

Zeus Appollo's Z20I3KD/3K6D/4K2D/4K6D/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. With Zeus Appollo, we put you in full control of your solar needs.

Technical data

Z20I3KD/3K6D/4K2D



	Z20I3KD	Z20I3K6D	Z20I4K2D
DC Input Data			
Max.recommended DC power[W]	3900	4680	5460
Max.DC voltage [V]	580	580	580
Max. input current [A]	11/11	11/11	11/11
MPPT Voltage Range [V]	80~550	80~550	80~550
Min.DC voltage/turn-on voltage [V]	120	120	120
No. of inputs/MPP trackers	2/2	2/2	2/2
DC connector	Amphenol H4/MC4/Sunclix(optional)		
Output (AC)			
Nominal AC power [W]	3000	3680	4200
Max. AC power [W]	3000	3680	4200
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	19
Power factor		0.8 leading~0.8 lagging	
Total harmonic distortion(THD)	<3%	<3%	<3%
Efficiency			
MPPT efficiency	99.9%	99.9%	99.9%
European efficiency	>97.5%	>97.5%	>97.5%
Max. efficiency	97.8%	97.8%	97.8%
Safety Equipment			
Leakage 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 to 45°C derating)	
Relative humidity		0~95%	
Altitude [m]		4000m (up to 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)		

Technical data

Z20I4K6D/5KD



Z20I4K6D		Z20I5KD
DC Input Data		
Max.recommended DC power[W]	6500	6500
Max.DC voltage [V]	580	580
Max. input current [A]	11/11	11/11
MPPT Voltage Range [V]	80~550	80~550
Min.DC voltage/turn-on voltage [V]	120	120
No. of inputs/MPP trackers	2/2	2/2
DC connector	Amphenol H4/MC4/Sunclix(optional)	
Output (AC)		
Nominal AC power [W]	4600	5000
Max. AC power [W]	4950	5000
Nominal AC voltage; range [V]	230;180~270	
AC grid frequency; range [Hz]	50/60; 45~55/55~65	
Max.AC current [A]	21.7	22.8
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		
Leakage 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	
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