

# Z10 SERIES Z10I3KD/Z10I4KD/Z10I5KD

## Efficiency

- Y Dual MPP trackers to suit roof mount with 2 different orientation.
- Y Maximum efficiency up to 98.2%.
- Y European efficiency up to 97.5%.
- Y MPPT efficiency up to 99.9%.

## Safety

- Y Smaller and lighter.
- Y IP65 Protection (indoor and outdoor use).
- Y 45°C full-load output.
- Y Wide MPPT voltage range.

## Usage

- Y Multi-button touch interface.
- Y Easy monitoring and control.
- Y Adjustable active and reactive power.
- Y LCD screen visible at night.

## Dual MPPT

Zeus Appollo Z10I3KD/4KD/5KD adopt cutting-edge technology in the photovoltaic field. It has created a new standard for inverter technology with more advanced reactive compensation technology and dual MPP trackers. The new series has a wide range of domestic applications. Aside from being compatible with different types of solar panel brands, it also meets the demands of easy installation and simple operation for indoor and outdoor use. Despite the fact that its weight is super light, it meets the IP65 protective class. Our unique dual MPP trackers and low THDi makes this series to become the first choice for residential applications. With Zeus Appollo, we put you in full control of your energy needs.



V. Clearance

	Z10I3KD	Z10I4KD	Z10I5KD
<b>Input (DC)</b>			
Max. recommended DC power [W]	3400	4500	5200
Max. DC voltage [V]	590	590	590
Max. input current [A]	12×2	16×2	18×2
MPPT voltage range [V]	120-550	120-550	120-550
Min. DC voltage/turn-on voltage [V]	90/150	90/150	90/150
Number of MPP Trackers/ Number of DC connection per MPPT	2/1	2/1	2/1
DC connector	MC4	MC4	MC4
<b>Output (AC)</b>			
Nominal AC power [W]	3000	4000	4600
Max. AC power [VA]	3300	4400	5000
Nominal AC voltage; range [V]		220/230/240; 185-276	
AC grid frequency; range [Hz]		50/60; 45-55/55-65	
Max. AC current [A]	14.4	19.0	22.0
Power factor		0.90 leading...0.90 lagging	
Total harmonic distortion (THD)	<2%	<2%	<2%
<b>Power Consumption</b>			
Power consumption at night [W]	<1	<1	<1
Standby power consumption [W]	6	6	6
<b>Efficiency</b>			
MPPT efficiency	99.9%	99.9%	99.9%
European efficiency (at 360Vdc)	97.3%	97.5%	97.5%
Max. efficiency (at 360Vdc)	98.2%	98.2%	98.2%
<b>Safety and Protection</b>			
Internal overvoltage protection		Yes	
DC insulation monitoring		Yes	
Earth fault protection		Yes	
Grid Monitoring		Yes	
Earth fault current monitoring		Yes	
DC current monitoring		Yes	
Islanding protection		Yes	
<b>Reference Standard</b>			
Grid Standard		AS4777.2, AS4777.3	
EMC Standard		EN61000-6-1, EN61000-6-3, EN61000-6-2, EN61000-6-4, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12	
Safety Standard		EN62109-1/2, AS/NZS3100	
<b>Environment</b>			
IP protection		IP65 (According to IEC 60529)	
Operating temperature range		-20°C to +60°C(>45°C derating)	
Relative humidity		0% to 98% (no condensation)	
Maximum altitude (above sea level)		2000m	
Noise level [dB]		<40dB	
<b>General Data</b>			
Dimension (W×H×D) [mm]		352×421×162.5	
Weight [Kg]		16.5	
Mounting Information		Wall bracket	
Topology		Transformerless	
Cooling concept		Natural convection	
Display		3" LED, Backlight, 4×20 Character LCD	
Communication interface		USB; RS485 (Optional Wi-Fi, GPRS)	