

	Z10I3KD	Z10I4KD	Z10I5KD
Input (DC)			
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
Output (AC)			
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%
Power Consumption			
Power consumption at night [W]	<1	<1	<1
Standby power consumption [W]	6	6	6
Efficiency			
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%
Safety and Protection			
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	
Reference Standard			
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	
Environment			
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	
General Data			
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)	