

Datasheet



Model 1	H2.5_210 H2.5_211	H3_210 H3_211	H3A_220 H3A_221	H4A_220 H4A_221	H5A_220 H5A_221	H5A_222
GENERAL						
Enclosure	Powder-coated aluminium					
Operating temperature	-25~60°C, full power up to 40°C ²					
Operating Altitude	2000m					
Relative humidity	0% – 95% non-condensing.					
Environmental category	Outdoor, wet locations					
Galvanic isolation	Non-isolated (TL Topology)					
Safety class	Class I metal enclosure with protective earth					
Pollution degree	Internal: II, External: III					
Overvoltage category	AC output: III, DC input: II					
Flicker impedance	$Z = 0.4 + j 0.25 \Omega$ (total impedance)					
Three-phase combinations	No					
DC INPUT (Solar side)						
Max. input voltage	500 Vdc	600 Vdc				
Operating voltage range	30-500 Vdc	30-550Vdc				
MPP range (rated power)	240-470 Vdc	290-500Vdc	180-500Vdc	240-500Vdc		
Normal voltage	350 Vdc					
MPP tracker	1		2			
Maximum input current	11 A		11Adc for each / 18Adc for total		11Adc for each / 22Adc for total	
Max. short circuit current	13.9 A /MPPT					15 A /MPPT
Max. inverter backfeed current to the array	0A					
Startup voltage	35 Vdc					
Input connection	MC4, 1 pairs		MC4, 2 pairs			H4, 2 pairs
Max input DC Power	2600W		2600W for each/ 4254.5W for total		2600W for each/ 5200W for total	

1: H2.5_210/ H3_210/ H3A_220/ H4A_220/ H5A_220/ H5A_222 : The product is with DC switch

H2.5_211/ H3_211/ H3A_221/ H4A_221/ H5A_221 : The product is without DC switch

2: The operating conditions of the product:

- (a) 60°C for indoor conditioned
- (b) 60°C for indoor unconditioned
- (c) 60°C for outdoor unconditioned without solar effects
- (d) 60°C for outdoor unconditioned with solar effects

Model 1	H2.5_210 H2.5_211	H3_210 H3_211	H3A_220 H3A_221	H4A_220 H4A_221	H5A_220 H5A_221	H5A_222
DC Switch parameters (Solar side)						
Insulation voltage (Ui)	850 V					1200 V
Rated impulse withstand voltage(Uimp)	8 kV					
Suitability for isolation	Isolating device					
Rated operational current	650 V / 30 A					600 V / 30 A
PV utilization category	DC-21B					DC-PV2
Rated thermal current uninterrupted duty (Iu)	45 A					50 A
Rated short-time withstand current (1s) (Icw)	700 A					
Rated short-circuit making capacity (Icm)	1.4 kA					1 kA
Rated conditional short-circuit current (Isc)	5 kA					
AC OUTPUT (Grid side)						
Nominal output power ³	2500 VA	3000 VA		4000 VA	5000 VA	
Maximum power	2500 VA	3000 VA		4000 VA	5000 VA	
Voltage	220/230 Vac -20%~+22%					
Nominal output current	10.9 A	13 A		17.4 A	22 A ⁴	
Max. output current	13.9 A	14.3 A		18.6 A	24 A	23 A
Maximum output fault current	16 A			20 A	25 A	
Maximum output over current protection	16 A			20 A	25 A	
Current (inrush) (A, peak and duration)	30A peak, 1ms					
Frequency	50/60 Hz					
Total harmonic distortion ⁵	<3% @Rated power					
Power factor ⁵	>0.99 @Rated power					
Peak efficiency	97.5%				98.3%	97.5%
EU efficiency	96.8%				98.0%	96.8%
Output connection	IP 67 single-phase					
Active anti-islanding method	Reactive power variation					
MECHANISM						
Housing	Die casting					
Cooling	Convection cooling					
IP rating	IP65					
Weight	10 kg			11 kg	12 kg	
Dimensions	380 × 318 × 130 mm					
Country of manufacturer	China					

Model 1	H2.5_210 H2.5_211	H3_210 H3_211	H3A_220 H3A_221	H4A_220 H4A_221	H5A_220 H5A_221	H5A_222
INFORMATION						
Power Meter	External device (DC1_100 / P1E)					External CT
Communication	Wi-Fi					
Indicator	LED					
Display / Cloud	DeltaSolar APP / MyDeltaSolar Cloud					
Alarm	Mail Notification ⁶					
REGULATIONS & DIRECTIVES						
Safety	IEC 62109-1 / -2 CE compliance					
Grid interface	VDE AR-N 4105 / VDE 0126-1-1 / AS4777.2:2015 ⁷⁻¹ / G83-2 / G59-3 / EN50438 / VFR2014 / C10 / C11 / UTE C15-712-1 / IEC61683 / IEC61727 / IEC62116 / EN50549-1:2019 / ABNT NBR 16149 ⁷⁻² / ABNT NBR 16150 ⁷⁻²					AS4777.2:2020 IEC61683 IEC62116 IEC61727
Emission	IEC 61000-6-4, IEC 61000-6-3					
Harmonics	EN 61000-3-12					
Variations and flicker	EN 61000-3-11					
Immunity	EN 61000-6-2					
Immunity	ESD	IEC 61000-4-2				
	RS	IEC 61000-4-3				
	EFT	IEC 61000-4-4				
	Surge	IEC 61000-4-5				
	CS	IEC 61000-4-6				
	PFMF	IEC 61000-4-8				

3: (a) H2.5 : 2.49kVA max. for Australia, New Zealand (AU / NZ)

(b) H3 / H3A : 2.99kVA max. for Australia, New Zealand (AU / NZ)

(c) H5A : 4.6kVA max. for Germany (DE)

(d) H4A/ H5A : 3.68kVA max. for Denmark (DK1 / DK2)

4: 21.7A nom. for Australia, New Zealand (AU / NZ)

5: reactive power control disabled

6: Earth Fault Alarm - The inverter complies with IEC 62109. When the earth fault occurs, the Red LED Alarm indicator will light up and a notification email will be sent to the customer.

7-1: not support AS4777.2 Single-phase inverters used in three-phase combinations

7-2: only H3_210/ H4A_220/ H5A_220 support