

5013280703



# **Quick Installation Guide**

Grid-tie Transformerless Solar Inverter H2.5 / H3 / H3A / H4A / H5A 220 / H5A 221

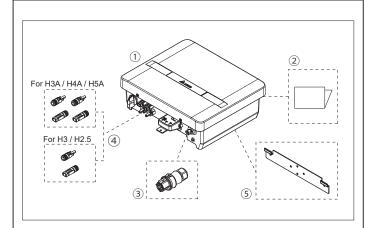
### User manual / DC1\_100 manual / APP download / APP guideline



Please scan QR-code for more instruction, specification and settings of DC1\_100 or APP.

- https://mydeltasolar.deltaww.com/?p=product\_manual

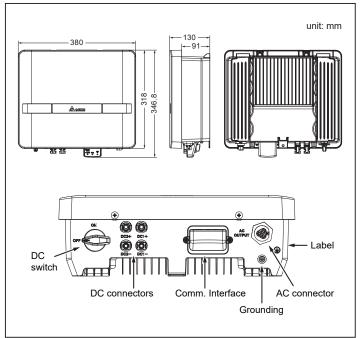
# **Descriptions of Parts and Components**

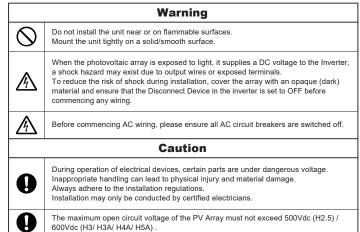


	Object Qt		Description		
1	PV Inverter	1	Solar inverter		
2	Quick Installation Guide	1	Important safety instructions and technical specifications should be followed during installation.		
3	AC Plug	1	Connector for AC connection		
	DC Plug	2 pairs	MC4 connector for DC connection for H3A / H4A / H5A		
4		1 pair	MC4 connector for DC connection for H2.5 / H3		
5)	Wall-Mount Bracket	1	To mount the solar inverter securely on the wall.		

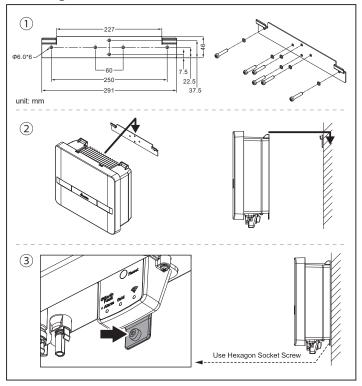
Caution
If there is any visible damage to the inverter/accesories or any damage to the packaging, please contact your inverter supplier before installation.

## **Dimensions and Function Introduction**





### Mounting



## **LED** and Button



#### The LEDs indicate the operating state of the inverter

The LEDS indicate the operating state of the inverter.									
LED	D Status		Explanation						
Earth Fault	Flashing	The red LED flashing indicates error "E34 : Insulation"							
Alarm	Steady on	The red LED glowing indicates error or fault. ( see user manual - chapter 9.1 Error Message )							
	0.1s on/off flashing	The inverter has not been setup yet. (country: default)							
Grid	1s on/off flashing	The inverter is on countdown status, before connecting grid.							
	Steady on	The inverter is connected to the grid.							
Wi-Fi	Steady on The Wi-Fi		nodule is on data transmission.						
The reset butt	on function								
Operation	Wi-Fi LED Status		Explanation						
Push 3s~10s	Wi-Fi LED flashing once every half a second		Reset Wi-Fi module						
Push 10s~20s	No flash		No function						
Push 20s~	Wi-Fi LED flashing once every one seconds		Reset Wi-Fi module, and Wi-Fi password returns to the default: DELTASOL						

# **Specifications**

Model *1		H2.5_210 H2.5_211	H3_210 H3_211	H3A_220 H3A_221	H4A_220 H4A_221	H5A_220 H5A_221			
		G	ENERAL						
Enclosure		Powder-coated aluminium							
Operating temp	erature	-25~60°C, full power up to 40°C							
Operating Altitu	de	2000 m							
Relative humidit	ty	0% – 95% non-condensing.							
Environmental of	category	Outdoor, wet locations							
Galvanic isolatio	on	No (TL Topology)							
Safety class		Class I metal enclosure with protective earth							
Pollution degree	e	Internal: II, External: III							
Overvoltage cat	egory	AC output: III, DC input: II							
Flicker impedan	ice	$Z = 0.4 + j 0.25 \Omega$ (total impedance)							
Three-phase com	binations	No							
		DC INPUT (Solar side)							
Max. input volta	ge	500 Vdc 600 Vdc							
Operating voltag	ge range	30-500 Vdc		30-550 Vdc					
MPP range (rate	d power)	240-470 Vdc	290-500 Vdc	180-500 Vdc	240-5	00 Vdc			
Normal voltage		350 Vdc							
MPP tracker			1		2				
				11 Adc for each / 11 Adc for eac					
Maximum input		1	A	18 Adc for total 22Adc for total					
Max. short circu	it current (per MPPT)			15 A					
Max. inverter ba current to the ar				0 A					
				35 Vdc					
Startup voltage Input connection		MC4	1 pair	MC4, 2 pairs					
	·		PUT (Grid side)		104, 2 pairs				
	*0				4000.1/4	5000.1/4			
Nominal output		2500 VA	300		4000 VA	5000 VA			
Maximum powe	r	2500 VA		AV C	4000 VA	5000 VA			
Voltage				0Vac -20%~+22					
Nominal output		10.9 A		8 A	17.4 A	22 A			
Max. output cur		13.9 A	14.3 A		18.6 A	24 A			
Maximum outpu		16 A			20 A	25 A			
	t over current protection	16 A 20 A 25 A							
Current (inrush) (A, peak and du				30 A peak, 1 ms	3				
Frequency	,			50/60 Hz					
Total harmonic d	intertion *3	30/00 HZ <3% @Rated power							
Power factor *3									
Peak efficiency		>0.99 @Rated power 97.5% 98.3%							
EU efficiency		96.8% 99							
Output connection	on			P 67 single-phas	;e				
		ME	CHANISM						
Housing		Die casting							
Cooling		Convection cooling							
IP rating		IP65							
External commu	unication	Wi-Fi							
Weight		10 kg 11 kg 12 kg							
Dimensions			38	0 × 318 × 130 n	nm				
		REGULATIO	ONS & DIRECTI	VES					
Safety			IEC 621	09-1 / -2, CE co	mpliance				
Grid interface		VDE AR-N 4105 / VDE 0126-1-1 / AS4777.2:2015 *4-1 / G83-2 / G59-3 / EN50438 / VFR2014 / C10 / C11 / UTE C15-712-1 / IEC61683 / IEC61727 / IEC62116 / EN50549-1:2019 / ABNT NBR 16149 *4-2 / ABNT NBR 16150 *4-2							
		IEC62116 / E				BR 16150 *4-2			
Emission		IEC 61000-6-4, IEC 61000-6-3							
Harmonics		EN 61000-3-12							
Variations and f	licker	EN 61000-3-11							
Immunity		EN 61000-6-2							
	ESD	IEC 61000-4-2							
	RS	IEC 61000-4-3							
Immunity	EFT	IEC 61000-4-4							
	Surge	IEC 61000-4-5							
	CS	IEC 61000-4-6							
	PFMF	IEC 61000-4-8							
H2.5_211 *2: (a) H2.5: (b) H3/ H (c) H5A: ( (d) H5A: (e) H4A/ *3: reactive p	/ H3_210/ H3A_220/ I / H3_211/ H3A_221/ I 2.49kVA max. for Au 3A: 2.99kVA max. for Au 3A: 2.99kVA max. for Ger H5A: 3.68kVA max. bower control disable port AS4777.2:2015	H4A_221/ H5A ustralia (AU / I r Australia (A stralia (AU / N many (DE) for Denmark ( rd	A_221: The pro VZ) U / NZ) IZ) DK1 / DK2) ≑ inverters use	duct is withou	t DC switch				