



Shenzhen V&T Technologies Co.,Ltd



Energy for everybody

- Easy-to-install
- Reliable
- User-friendly



Shenzhen V&T Technologies Co.,Ltd

CONTACT US



E-mail

overseas@v-t.net.cn



Web

www.vectorque.com



Address:

3-8th Floor, Tower 2, Zhiyan Innovation Building, Yutang Street, Tianliao Community, Guangming District, Shenzhen, Guangdong Province, China.



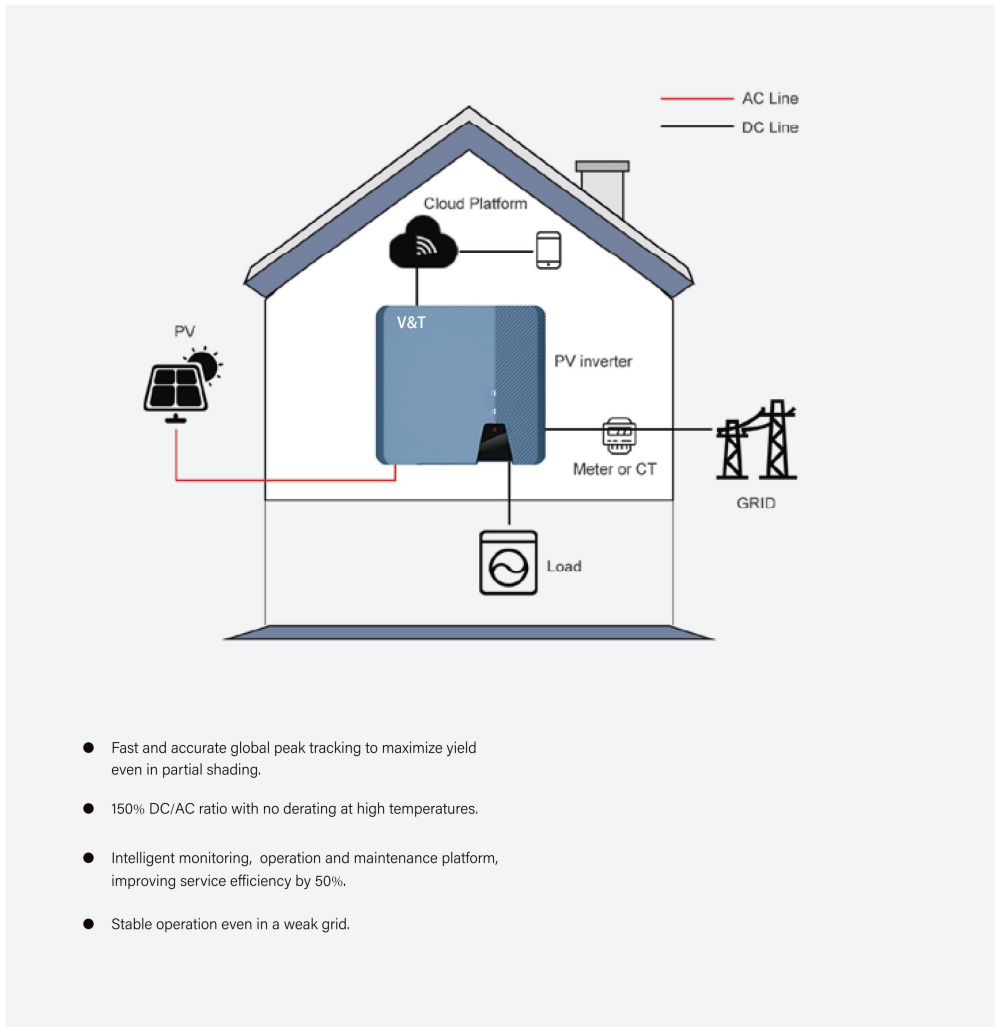
PV PRODUCT AND SOLUTION

ENERGY STORAGE MICROGRID



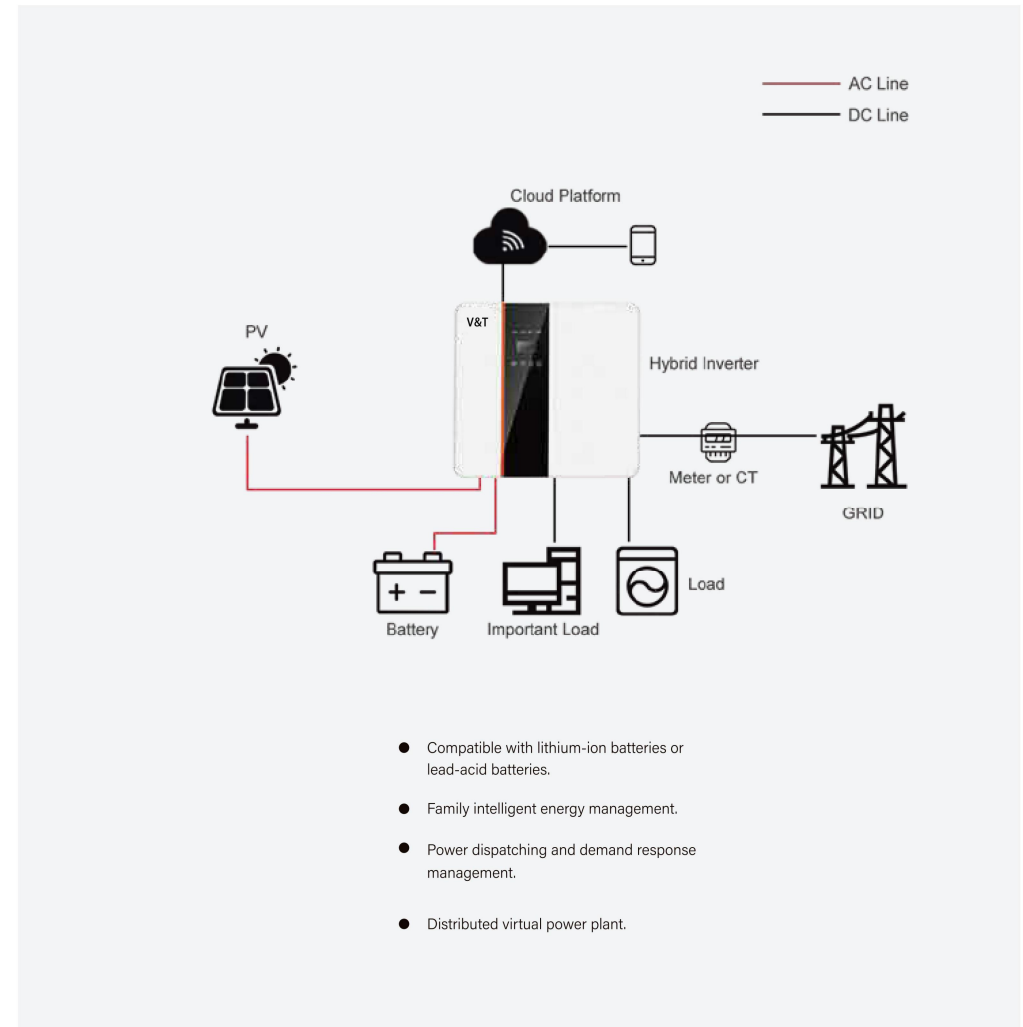
Residential Grid Tie Solution

Our single- and three-phase grid tie and hybrid inverters with high efficiency and maximum reliability for residential and household solar panels systems. Every installer and distributor can find the efficiency inverter that suits his needs and requirements best!



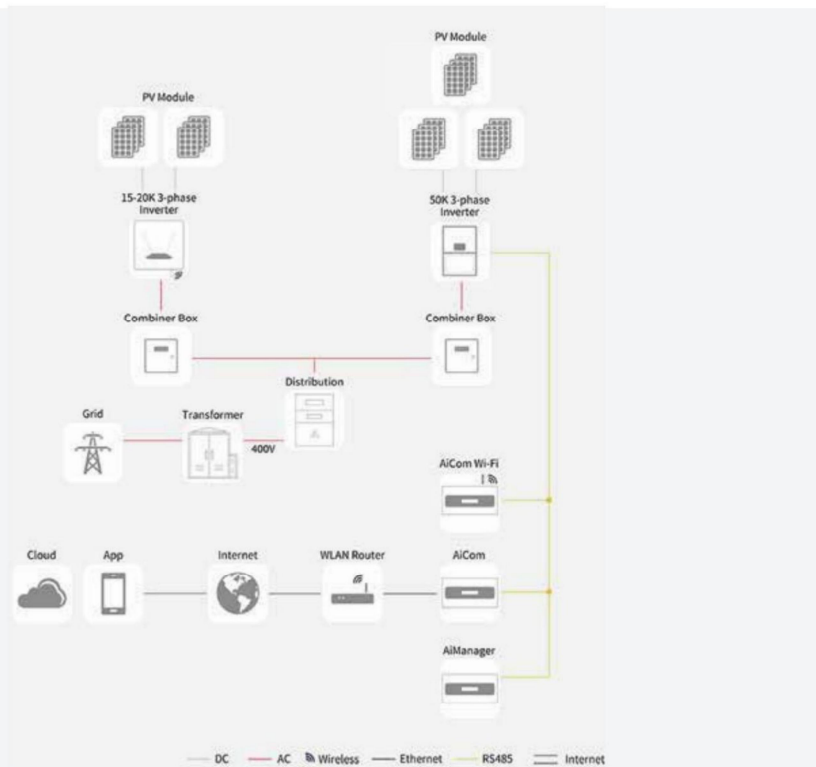
Residential Energy Storage Solution

In developed areas, PV+ESS will gradually be applied commercially. Our hybrid inverter solutions for household use can quickly respond to EMS instructions, forming a smart and friendly power supply system with rooftop PV, making power generation safer.



Commercial & Industrial Grid Tie Solution

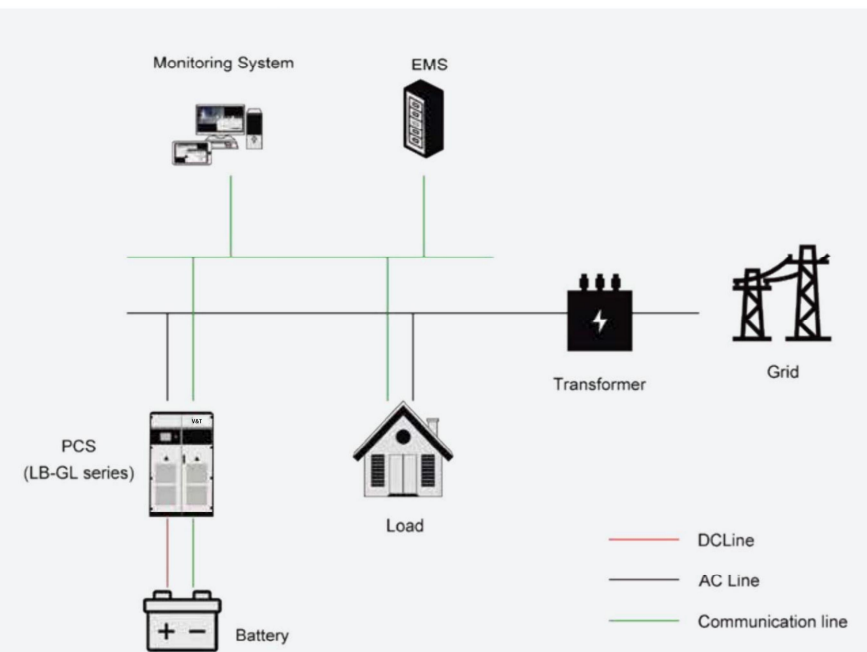
Commercial and industrial PV solar power system require high-yield PV inverters that are easy-to-install, reliable and user friendly. Therefore our 30-50K LT-G2 series string inverters inverter for solar panel are your best choice combining quality, performance, and reliability within a compact IP66 rated award winning design.



- Up to 150% oversizing of the PV array, ensures high design flexibility for commercial and industrial applications.
- High power density within a compact body with improved thermodynamics due to high quality component selection and electronic design.
- Plug and play Wi-Fi and 4G sticks which allows easy monitoring of up to five inverters.
- Designed in accordance with international quality and safety standards, the IP66 rated design can withstand a wide range of environmental conditions.

Commercial & Industrial Energy Storage Solutions

ESS can be used for not only peak-valley arbitrage, but also reducing transformer capacity charge, saving user transformer expansion and saving costs for standby power supply.



- Peak shaving and valley filling.
- Transformer capacity expansion.
- Reactive power compensation and APF.
- PCS has strong load adaptability and reliability.
- Participation in demand side response and frequency and peak regulation assistant services for power dispatching.
- Integrated energy efficiency management.

Single phase inverters 3 to 5 kW



- VTW3000-S
- VTW5000-S



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Quick setup and commissioning with apps
- Compact wall mount design



Reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and apps
- Dual MPPT Sfor flexible PV array design

Model	VTW3000-S	VTW5000-S
DC Input		
Max. PV array power	4500 Wp STC	7500 Wp STC
Max. input voltage	580 V	
MPP voltage range / rated input voltage	80 V to 550 V / 360 V	
Min. input voltage	80 V	
Initial. feed in voltage	100 V	
Max. operating input current	12 A / 12 A	
Max. short circuit current	18 A / 18 A	
No. of independent MPPT inputs / strings per MPPT input	2/1	
AC Output		
Rated power	3000 W	5000 W
Max. apparent AC power	3000VA	5000 VA
AC nominal voltage	220 V / 230 V / 240 V	
AC voltage range	180 V to 290 V	
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz	
Max. output current	15 A	15 A
Adjustable power factor range	0.8 leading to 0.8 lagging	
Feed-in phases	1	
Harmonic distortion (THD) at rated output	< 3 %	
Efficiency&Protection		
Max. efficiency / European efficiency	97.85 % / 97.3 %	97.85 % / 97.6 %
DC switch	●	
Ground fault monitoring / grid monitoring	● / ●	
DC reverse polarity protection / AC short circuit protection	● / ●	
All-pole-sensitive residual-current monitoring unit	●	
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I/AC: III; DC :II	
General data		
Dimensions (W / H / D)	376 / 355 / 145 mm	
Weight	12 kg	
Operating temperature range	-25°C ... +60°C	
Self-consumption (at night)	< 1 W	
Topology	Transformerless	
Cooling concept	Natural convection	
Degree of protection (according to IEC 60529)	IP66	
Climatic category (according to IEC 60721-3-4)	4K4H	
Max. permissible value for relative humidity (non-condensing)	100 %	
Max. operating altitude	3000 m	
Features		
DC connection	Phoenix contact	
AC connection	Plug-in connector	
Mounting type	Wall-mount bracket	
LED indicators (Status / Fault/ Communication)	●	
Communication interface	Wi-Fi / 4G / RS485 (Optional)	
Certificates and approvals (more available on request)	CE, IEC62109, IEC61000, AS/NZS 4777, EN50549, VFR 2014 & UTE C15-712-1, CEI 0-21, C10/C11, NBR16149, IEC61727, IEC62116, IEC61683	

Single phase inverters 6 to10kW



- VTW6000-S
- VTW8000-S
- VTW10000-S



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Quick setup and commissioning with apps
- Compact wall mount design



Reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



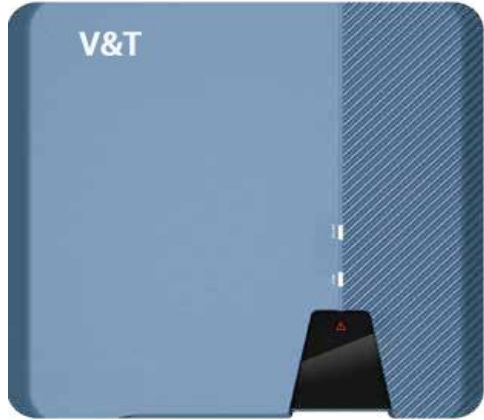
User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and apps
- Dual MPPT Sfor flexible PV array design

Model	VTW6000-S	VTW8000-S	VTW10000-S
DC Input			
Max. PV array power	9500Wp STC	12000 Wp STC	15000 Wp STC
Max. input voltage	580 V		
MPP voltage range / rated input voltage	80 V to 550 V / 360 V		
Min. input voltage	80 V		
Initial. feed in voltage	100 V		
Max. operating input current	16A/16A	20A/20A	20A/16A/20A
Max. short circuit current	22.5A/22.5A	28/28A	28A/22.5A/28A
No. of independent MPPT inputs / strings per MPPT input	2/1	2/1	3/1
AC Output			
Rated power	6000 W	8000 W	10000 W
Max. apparent AC power	6000VA	8000VA	10000 VA
AC nominal voltage	220 V / 230 V / 240 V		
AC voltage range	180 V 300V		
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz		
Max. output current	30A	40A	50A
Adjustable power factor range	0.8 leading to 0.8 lagging		
Feed-in phases	1		
Harmonic distortion (THD) at rated output	< 3 %		
Efficiency&Protection			
Max. efficiency / European efficiency	97.85 % / 97.3 %	97.85 % / 97.3 %	97.85 % / 97.6 %
DC switch	●		
Ground fault monitoring / grid monitoring	● / ●		
DC reverse polarity protection / AC short circuit protection	● / ●		
All-pole-sensitive residual-current monitoring unit	●		
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I/AC: III; DC :II		
General data			
Dimensions (W / H / D)	503*435*180mm		
Weight	18 kg		
Operating temperature range	-25°C ... +60°C		
Self-consumption (at night)	< 1 W		
Topology	Transformerless		
Cooling concept	Natural convection		
Degree of protection (according to IEC 60529)	IP66		
Climatic category (according to IEC 60721-3-4)	4K4H		
Max. permissible value for relative humidity (non-condensing)	100 %		
Max. operating altitude	3000 m		
Features			
DC connection	Phoenix contact		
AC connection	Plug-in connector		
Mounting type	Wall-mount bracket		
LED indicators (Status / Fault/ Communication)	●		
Communication interface	Wi-Fi / 4G / RS485 (Optional)		
Certificates and approvals (more available on request)	CE, IEC62109, IEC61000, AS/NZS 4777, EN50549, VFR 2014 & UTE C15-712-1, CEI 0-21, C10/C11, NBR16149, IEC61727, IEC62116, IEC61683		



Three phase inverters 8 to 20 kW



型号:

VTW8K-LT-G2
VTW10K-LT-G2
VTW12K-LT-G2
VTW13K-LT-G2
VTW15K-LT-G2
VTW17K-LT-G2
VTW20K-LT-G2



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Quick setup and commissioning with apps
- Compact wall mount design



Reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and apps
- Dual MPPT Sfor flexible PV array design

Model	VTW 8K-LT-G2	VTW 10K-LT-G2	VTW 12K-LT-G2	VTW 13K-LT-G2	VTW 15K-LT-G2	VTW 17K-LT-G2	VTW 20K-LT-G2
DC Input							
Max. PV array power	12000 Wp STC	15000 Wp STC	18000 Wp STC	19500Wp STC	22500 Wp STC	25500 Wp STC	30000 Wp STC
Max. input voltage	1100 V						
MPP voltage range / rated input voltage	150 V to 1000 V / 630 V						
Min. input voltage	125 V						
Initial. feed in voltage	180 V						
Max. operating input current	26 A / 13 A	26 A / 13 A	26 A / 26 A	26 A / 26 A	26A/26A	26A/26A	26A/26A
Max. short circuit current	40 A / 20 A	40 A / 20 A	40 A / 40 A	40 A / 40 A	40A/40 A	40A/40A	40A/40A
No. of independent MPPT inputs / strings per MPPT input	2 / A:1;B:1	2 / A:1;B:1	2 / A:2;B:1	2 / A:2;B:1	2/A:2;B:1	2 / A:2;B:2	2 / A:2;B:2
AC Output							
Rated power	8000 W	10000 W	12000 W	13000 W	15000 W	17000 W	20000 W
Max. apparent AC power	8000 VA	10000 VA	12000 VA	13000 VA	15000 VA	17000 VA	20000 VA
AC nominal voltage	220 V / 380 V, 230 V / 400 V, 240 V / 415 V						
AC voltage range	160 V to 380 V						
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz, 60 Hz / 55 Hz to 65 Hz						
Max. output current	12.8 A	16 A	19.1 A	20.7 A	24 A	27.1 A	31.9 A
Adjustable power factor range	0.8 leading to 0.8 lagging						
Feed-in phases	1						
Harmonic distortion (THD) at rated output	< 3 %						
Efficiency&Protection							
Max. efficiency / European efficiency	98.6 % / 98.2 %						
DC switch	●						
Ground fault monitoring / grid monitoring	● / ●						
DC reverse polarity protection / AC short circuit protection	● / ●						
All-pole-sensitive residual-current monitoring unit	●						
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I/AC: III; DC: II						
General data							
Dimensions (W / H / D)	503 / 435 / 183 mm						
Weight	17.3 kg	17.3 kg	17.3 kg	17.3 kg	17.3 kg	18.6 kg	18.6 kg
Operating temperature range	-25°C ... +60°C						
Self-consumption (at night)	< 1 W						
Topology	Transformerless						
Cooling concept	Natural convection			Active cooling			
Degree of protection (according to IEC 60529)	IP66						
Climatic category (according to IEC 60721-3-4)	4K4H						
Max. permissible value for relative humidity (non-condensing)	100 %						
Max. operating altitude	3000 m						
Features							
DC connection	Phoenix contact						
AC connection	Plug-in connector						
Mounting type	Wall-mount bracket						
LED indicators (Status / Fault/ Communication)	●						
Communication interface	Wi-Fi / 4G / RS485 (Optional)						
Certificates and approvals (more available on request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11						

Three phase inverters 30 to 50 kW



- VTW30K-LT-G2
- VTW33K-LT-G2
- VTW36K-LT-G2
- VTW40K-LT-G2
- VTW45K-LT-G2
- VTW50K-LT-G2



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Quick setup and commissioning with apps
- Compact wall mount design



Reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and apps
- Dual MPPT Sfor flexible PV array design

Model	VTW 30K-LT-G2	VTW 33K-LT-G2	VTW 36K-LT-G2	VTW 40K-LT-G2	VTW 45K-LT-G2	VTW 50K-LT-G2
DC Input						
Max. PV array power	45000 Wp STC	49500 Wp STC	54000 Wp STC	60000 Wp STC	67500 Wp STC	75000 Wp STC
Max. input voltage	1100 V					
MPP voltage range / rated input voltage	200 V to 1000 V / 630 V					
Min. input voltage	200 V					
Initial. feed in voltage	250 V					
Max. operating input current	26 A					
Max. short circuit current	40 A					
No. of independent MPPT inputs / strings per MPPT input	3 / 2	3 / 2	3 / 2	4 / 2	4 / 2	5 / 2
AC Output						
Rated power	30000 W	33000 W	36000 W	40000 W	45000 W	50000 W
Max. apparent AC power	30000 VA	33000 VA	36000 VA	40000 VA	45000 VA	50000 VA
AC nominal voltage	220 V / 380 V , 230 V / 400 V					
AC voltage range	180 to 305 V / 312 to 528 V					
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz , 60 Hz / 55 Hz to 65 Hz					
Max. output current	50.0 A	55.0 A	60.0 A	66.7 A	75.0 A	80.0 A
Adjustable power factor range	0.8 leading to 0.8 lagging					
Feed-in phases	3 / 3-N-PE					
Harmonic distortion (THD) at rated output	<= 3%					
Efficiency&Protection						
Max. efficiency / European efficiency	98.6 % / 98.3 %					
DC switch	●					
Ground fault monitoring / grid monitoring	● / ●					
DC reverse polarity protection / AC short circuit protection	● / ●					
All-pole-sensitive residual-current monitoring unit	●					
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I/AC: III; DC: II					
General data						
Dimensions (W / H / D)	670 / 580 / 270 mm					
Weight	42 kg	42kg	42 kg	42.5 kg	42.5 kg	43 kg
Operating temperature range	-25°C ... +60°C					
Self-consumption (at night)	< 1 W					
Topology	Transformerless					
Cooling concept	Active cooling					
Degree of protection (according to IEC 60529)	IP66					
Climatic category (according to IEC 60721-3-4)	4K4H					
Max. permissible value for relative humidity (non-condensing)	100 %					
Max. operating altitude	3000 m					
Features						
DC connection	Phoenix contact					
AC connection	OT connector					
Mounting type	Wall-mount bracket					
LED indicators (Status / Fault/ Communication)	●					
Communication interface	Wi-Fi / 4G / RS485 (Optional)					
Certificates and approvals (more available on request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, NB/T 32004					

Three phase inverters 80 to 100kW



- VTW80K-LT
- VTW100K-LT



Easy-to-install

- Toolless DC connection via Phoenix Contact connectors
- Quick setup and commissioning with apps
- Compact wall mount design



Reliable

- International quality standards
- Integrated DC switch
- IP66 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and apps
- Dual MPPT Sfor flexible PV array design

Model	VTW 80K-LT	VTW 100K-LT
DC Input		
Max. PV array power	120000 Wp STC	150000Wp STC
Max. input voltage	1100 V	
MPP voltage range / rated input voltage	200 V to 1000 V / 630 V	
Min. input voltage	200 V	
Initial. feed in voltage	250 V	
Max. operating input current	26 A	
Max. short circuit current	40 A	
No. of independent MPPT inputs / strings per MPPT input	8 / 2	10 / 2
AC Output		
Rated power	80000 W	100000 W
Max. apparent AC power	80000 VA	100000 VA
AC nominal voltage	220 V / 380 V, 230 V / 400 V	
AC voltage range	180 to 305 V / 312 to 528 V	
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz, 60 Hz / 55 Hz to 65 Hz	
Max. output current	115.5 A	114.3 A
Adjustable power factor range	0.8 leading to 0.8 lagging	
Feed-in phases	3 / 3-N-PE	
Harmonic distortion (THD) at rated output	<= 3%	
Efficiency&Protection		
Max. efficiency / European efficiency	98.6 % / 98.3 %	
DC switch	●	
Ground fault monitoring / grid monitoring	● / ●	
DC reverse polarity protection / AC short circuit protection	● / ●	
All-pole-sensitive residual-current monitoring unit	●	
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I/AC: III; DC: II	
General data		
Dimensions (W / H / D)	984/ 640 / 330 mm	
Weight	85 kg	
Operating temperature range	-25°C ... +60°C	
Self-consumption (at night)	< 1 W	
Topology	Transformerless	
Cooling concept	Active cooling	
Degree of protection (according to IEC 60529)	IP66	
Climatic category (according to IEC 60721-3-4)	4K4H	
Max. permissible value for relative humidity (non-condensing)	100 %	
Max. operating altitude	3000 m	
Features		
DC connection	Phoenix contact	
AC connection	OT connector	
Mounting type	Wall-mount bracket	
LED indicators (Status / Fault/ Communication)	●	
Communication interface	Wi-Fi / 4G / RS485 (Optional)	
Certificates and approvals (more available on request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC61000, NB/T 32004	