



W-HPT-15K/17K/20K/25K Series 3-Phase Grid-tied Solar Inverters

USER MANUAL

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1. SAFETY AND WARNINGS SYMBOLS ON THE LABEL

	DANGER, WARNING AND		RECYCLABLE AND REUSABLE
A	HIGH VOLTAGE AVOID CONTACT	*	AVOID DAMP AND MOISTURE
	HIGH TEMPERATURE AVOID CONTACT	7	SHIPMENT STACK LIMIT: 7
(€	CE MARKS	X	DO NOT DISPOSE WITH HOUSEHOLD WASTE
A C Smins	PROCEED OPERATIONS AFTER 5 MINUTES DISCHARGE	T	BREAKABLE ITEM
11	PLACE UPWARDS	$\bigcap_{\mathbf{i}}$	USER MANUAL IN PACK

2. SAFETY AND WARNINGS

- All persons who are responsible for mounting, installation, commissioning, maintenance, tests, and service of WESTERN CO inverter products must be suitably trained and qualified for corresponding operations. They MUST be experienced and have knowledge of operation safety and professional methods. All installation personnel must have knowledge of all applicable safety information, standards, directives, and regulations.
- The product must ONLY be connected and operated with PV arrays of protection class II, in accordance with IEC 61730, application class A. The PV modules must also be compatible with this product. Power resources other than compatible PV arrays MUST not be connected and operate with the product.
- When designing or constructing a PV system, all components MUST remain in their permitted operating ranges, and their installation requirements MUST always be fulfilled.
- 4. Under exposure to sunlight, the PV array may generate dangerous output in DC voltage. Contacts with the DC wires, conductors and live components in the inverter may result in lethal shocks.
- 5. High voltages in inverter could cause lethal electrical shocks. Before proceeding any work, including maintenance and/or service, on the inverter, fully disconnect it from all DC input, AC grid and other voltage sources. There MUST be a 5-minute waiting time after the full disconnection.
- 6. The DC input voltage of the PV array MUST never exceed the maximum input voltage of the inverter.
- 7. DO NOT touch parts of the inverter during operation as heat will be induced and these parts will exceed 60°C.

3. UNPACKING

3.1 Scope of Delivery

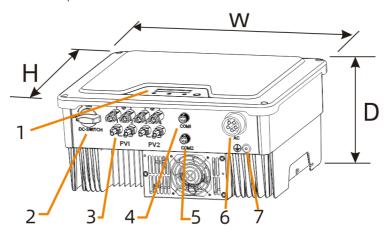
Please inspect and check for completeness in the scope of delivery. Confirm with purchase order.

THE STATE OF THE S	~····		(D)(M)			8	
INVERTER	MOUNTING BRACKET	MOUNTING ACCESSORIES	DC PLUGS (SEALED)	AC CONNECTOR	METER /DRED CONNECTOR	WI-FI STICK	DOCUMENTS
1	1	1	4	1	1	1	1

3.2 Product Overview

The total size of W-HPT-15K/17K/20K/25K is 425(width) $\times 351$ (height) $\times 200$ (depth) mm. It has 4 pairs of PV input terminals and 2 communication ports. It also has a LED&LCD (or just LED, determined by user) for getting information and setting parameters at field.

The detail description is shown below:

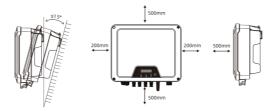


Mark Num.	Component	Description
1	LED&LCD or LED	Display and setting device at field
2	DC Switch	For switch on/off the inverter
3	PV Terminal (s) Connected with PV Panel	
4	COM1: Wi-Fi/GPRS/RS485	Alternative distant communication method
5	COM2: METER/DRED	For smart-meter or DRED
6 Secondary PE Terminal		For Grounding Protection
7 AC Terminal		Connected with AC Grid

4. INSTALLING

4.1 Installation Requirement

- 1. Please install the inverter(s) in places that can avoid inadvertent contact.
- 2. Installation method, location and surface must be fitting for the inverter's weight and dimensions.
- 3. Please install the inverter in an accessible location for operation, future maintenance and service.
- 4. The inverter performance peaks at ambient temperature lower than 45°C.
- 5. When installing in residential or domestic environment, it is recommended to install and mount the inverter on a solid, concrete wall surface. Mounting the inverter on composite or plaster boards or walls with similar materials would induce noise during its operation and is therefore not recommended.
- 6. DO NOT cover the inverter NOR place any objects on top of the inverter.
- 7. To ensure sufficient room for heat dissipation and maintenance, the clearing space between inverter(s) and other surroundings is indicated below for reference:



8. Avoid direct exposure to sunlight and rain and snow layup.

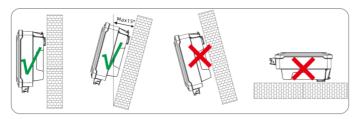






4.2 Mounting Location

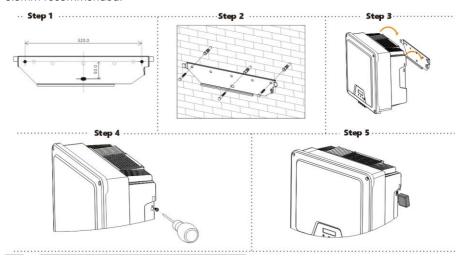
- 1. DO NOT mount the inverter near any inflammable materials.
- 2. DO NOT mount the inverter near any explosive materials.



- 3. DO NOT mount the inverter on tilting surface over 15° backwards. Please mount the inverter on a vertical wall surface.
- 4. DO NOT mount the inverter on any surfaces tilting forward or to both sides.
- 5. DO NOT mount the inverter on a horizontal surface.
- 6. For easy installation and operation, please mount the inverter on a height that the display could match eye level.
- 7. The bottom side where all commissioning terminals are equipped MUST always point downwards.

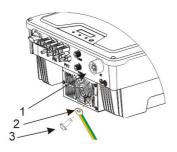
4.3 Mounting

- 1. Use the mounting bracket as a template and drill holes of 10mm diameter and 70mm depth.
- 2. Fix the mounting bracket with the screws and expansion bolts packed in mounting accessories.
- 3. Hold up the inverter and tilt it slightly forward. Hang up the inverter and attach it to the mounting bracket. Check both sides of the heat sink to ensure its stably attached.
- 4. Use M5 screws (T25 screwdriver, torque 2.5 Nm) to attach the heat sink fins to the mounting bracket.
- 5. It is recommended to attach the anti-theft lock to the inverter. Lock diameter ϕ 4-5.5mm recommended.



4.4 Installing the PE cable

- 1. Insert the grounding conductor into the suitable terminal lug and crimp the contact.
- 2. Align the terminal lug with the grounding conductor and the ground washer on the screw. The teeth of the ground washer must be facing the housing.
- 3. Tighten it firmly into the housing (screwdriver type: T25, torque: 2.5Nm).



Information on grounding components:

Object	Description
1	Housing
2	Terminal lug with protective conductor
3	M6×12 pan head screw

PE Conductor cross-section: 16 mm²

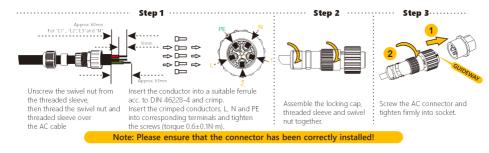
5. COMMISSIONING

5.1 Safety Instructions

- 1. Measure the frequency and voltage of grid connection and make sure they follow the inverter's grid connection specifications.
- 2. An external circuit-breaker on the AC side (or a fuse) at 1.25*AC rated current is strongly recommended.
- 3. Reliability of all earth connections must be tested and valid.
- 4. Before commissioning, disconnect the inverter and the circuit-breaker or fuse, and prevent accidental reconnection.

5.2 AC Wire Assembly and Connection

5.2.1 AC Commissioning



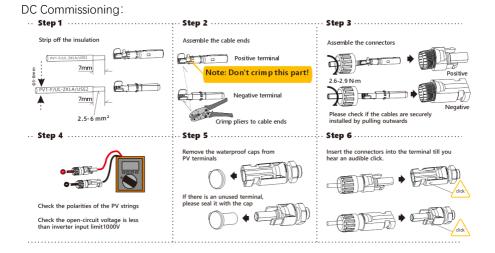
5.2.2 AC Switch Types

Please install an individual 2-stage miniature circuit breaker according to the following specifications.

Model	Maximum output current (A)	AC Breaker Rated current (A)
W-HPT-15K	24	32
W-HPT-17K	27.6	32
W-HPT-20K	31.9	40
W-HPT-25K	36.3	50

5.3 DC Wire Assembly and Connection

- 1. PV modules of the connected strings must be of: the same time, identical alignment and tilting angle.
- 2. Before commissioning and connecting the PV arrays, the DC switch MUST be open.
- 3. Parallel strings must have the same number of modules.
- 4. It is mandatory to use the DC connectors within package for the connection of PV arrays.
- 5. The polarity of the PV arrays MUST be compatible to the DC connectors of the inverter.
- 6. The DC input voltage AND DC input current of the PV array MUST never exceed the maximum input allowance of the inverter.



5.4 Residual Current Protection

This product is equipped with residual current protection device internally, in accordance with IEC 60364-7-714. An external residual current protection device is not needed. If the local regulation demands otherwise, it is recommended to install a 30mA Type B residual current protection device.

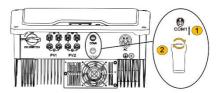
6. COMMUNICATION

6.1 System monitoring via WI-Fi Stick - RS485/Wi-Fi /GPRS

6.1.1 Wi-Fi Stick Installation

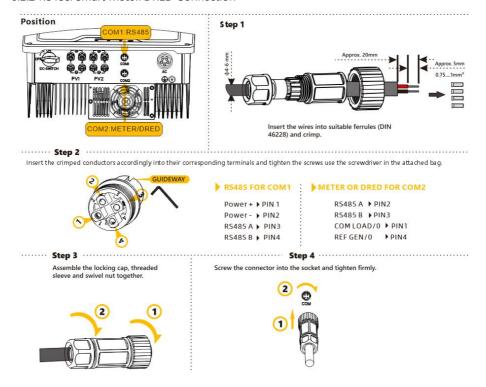
Unpack the Wi-Fi Stick from package.

- 1. Unscrew the cap in COM1 port.
- 2. Plug the Wi-Fi Stick in and tighten.



For user guidance and configuration of Wi-Fi Stick, please refer to the corresponding Wi-Fi Stick Guide manual, which is available in printed form inside Documents pack, or on Western CO. website at www.western.it/en

6.1.2 RS485/Smart Meter/DRED Connection





When installing RS485, the COM sealing plate needs to be removed. All operation MUST NOT proceed until AC and DC power is securely disconnected and discharged to prevent electric shocks.

6.2 Output Power Control via Smart Meter

The inverter's active power output and efficiency could be monitored via the application of a smart meter.



Please refer to **EASTRON SDM630-Modbus V2 User manual** for its connection and baud rate settings.

6.3 Auto Test (ONLY for Italian Market)

Auto-Test

- 1. The default setting of this function is disabled which can only be available in Italy safety, Short press the button until first Line of LCD displays "Auto Test", and long press (>2s) the button to start this function. First line of LCD displays "Auto Testing" and the second line of LCD displays "Start". Release the button for more than 10s, LCD will automatically switch to display the information about testing.
- 2. If auto test is finished, short press the button, Second line of LCD switches between "Start" and "Result". Under the "Result" display interface then release the button for more than 10s, LCD will automatically switch to display the result of auto test. and short press button to display test result one by one.
 - 3. Auto test begin after the inverter relays close successfully. And LCD show the information about testing. If sub test finishes and second line of LCD displays "Test **** OK", The first line of LCD displays voltage or frequency test value and the value of protection time. Inverter relay breaks off and reconnect to grid automatically according to CEI 0-21 requirement, Then the next test starts. Test order is 81>.S1(maximum over frequency), 81>.S2(maximum over frequency), 81<.S1(minimum under frequency), 59.S1(minimum under frequency), 59.S1(maximum voltage over 10min), 59.S2(maximum over voltage), 27.S1(minimum under voltage).

7. START UP AND OPERATION

7.1 Safety Check Before Start Up

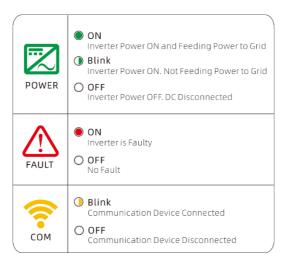
Please check before switching on any voltage resources connected to the inverter and closing inverter's DC switch:

- 1. Grid Voltage: Check the grid voltage at point of connection at the inverter complies with permitted range of the inverter.
- 2. Mounting Bracket: Check if the mounting bracket is properly and securely installed.
- 3. Mounting of the inverter: Check if the inverter is properly mounted and attached to the mounting bracket.
- 4. DC Connectors: Check if the DC connectors are installed correctly on terminals.
- AC Connectors and Wire Assembly: Check if wires are assembled correctly on the AC side and if the AC connector is properly and securely installed. Check if the AC connector is firmly plugged into AC terminal.
- 6. Cables: Check if all cables are reliably connected. Check if the connections are effective, while the insulations are undamaged.
- 7. Groundings: Check all groundings using multimeter and if all exposed metal parts of the inverter are properly grounded.
- 8. DC Voltage: Check if the largest open-circuit voltage of PV arrays complies with the permitted range.
- 9. DC Polarity: Check if the wires from DC voltage resource are connected to terminals with correct polarity.
- 10. Grounding Resistance: Check if the grounding resistance of PV strings >1MOhm using a multimeter.

After all installation and checks, close the AC circuit-breaker, then the DC switch. The inverter will start to operate when DC input voltage and grid conditions meet the requirements of inverter startup.

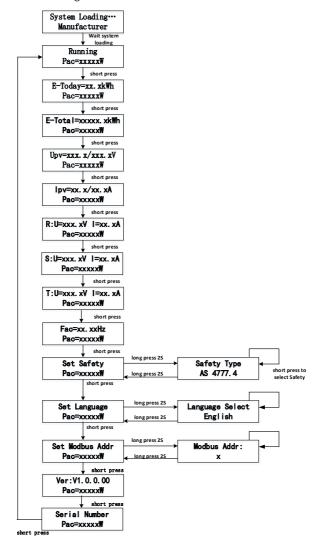
7.2 Inverter LED Indicators

When the inverter operates, LED symbols on display have the following meanings:



7.3 Display and Control Logics

When inverter starts up and operates, there is a control button beside LCD Display of the inverter. Please follow the logics listed below.



8. DISCONNECTING FROM VOLTAGE RESOURCES

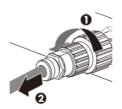
Before proceeding any operations on inverter, please disconnect the inverter from all voltage resources as described in this manual.

Following these steps in described sequence are mandatory.

- 1. Disconnect miniature circuit-breaker and prevent from unintentional reconnections.
- 2. Open the DC switch and prevent the switch from closing unintentionally.
- 3. Use clamps to ensure there is no electrical current in DC wires.
- 4. Disconnect all DC connections and resources. Unplug the DC connectors, and DO NOT pull the cables.



- 5. Use multimeter to ensure the voltage on DC terminals of inverter is 0.
- 6. Unscrew and remove the AC connector.





Danger to life due to high voltages.

Inverter capacitors need 5 minutes to be completely de-energized.

When an error occurs, DO NOT remove the cover of the inverter onsite. Improper operations and attempts may induce electric shock.

9. TECHNICAL PARAMETERS

Module	W-HPT-15K	W-HPT-17K	W-HPT-20K	W-HPT-25K	
INPUT/DC					
Max. PV Power(Wp)	22500	25500	30000	30000	
Max. Input Voltage(V)		1000			
MPP Voltage Range(V)		200-	-900		
Min. DC Voltage(V)		150			
Nominal DC-Input Voltage(V)		6:	20		
Max. Input Current(A)		13 per	string		
Max. short DC current (A)		20 per	string		
No. of independent MPPT inputs		;	2		
No. of PV strings per MPPT		;	2		
Max. inverter backfeed current to the					
array (A)		(0		
	OUTPUT/A	С			
Rated Power(W)	15000	17000	20000	25000	
Max. apparent AC power(VA)	16500	19000	22000	25000	
Rated grid voltage (Vac)	380/400				
Rated power frequency (HZ)	50/60				
Max. output current (A)	24	27.6	31.9	36.3	
Max. output overcurrent protection(A)	40	40	40	50	
	18.4A	18.4A	18.4A	18.4A	
Inrush current (Peak and duration)*	@0.214ms	@0.214ms	@0.214ms	@0.214ms	
Max. output fault current(Peak and	35.5A	35.5A	35.5A	35.5A	
duration)*	@420US	@420US	@420US	@420US	
Adjustable displacement power factor	o.8ind to o.8cap				
THDi at rated power		<3	3%		
"*" The inrush current a	nd Max. output fa	ult current are re	eally test values.		
EFFICIENCY					

Max. Efficiency	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	98.2%	98.2%	98.2%	98.2%
MPPT Efficiency		99.9%		
	PROTECTIO	N		
Anti-islanding Protection		Integ	grated	
Input Reverse Polarity Protection		Integ	grated	
Insulation Resistor Detection		Integ	grated	
Residual Current Monitoring Unit		Integ	grated	
Output Over Current Protection		Integ	grated	
Output Short Protection		Integ	grated	
Output Over Voltage Protection		Integ	grated	
	GENERAL DA	TA		
Dimensions(W*H*D) mm		425*3	51*200	
Weight (kg)	20			
Noise emission(typical) dB(A)		<	45	
User Interface		LED&LC	D or LED	
DC connection type	D4(MC4, H4 optional)			
AC connection type	Plug-in Connector			
Communication	RS485/WiFi/GPRS			
Cooling method		Smart Fa	n Cooling	
Operating ambient temperature range		-25°C	+6o ° C	
Allowable relative humidity range		0%~	100%	
Max. operating altitude(m)		3000(>200	oo derating)	
Degree of protection(IEC 60529)		IP	65	
Climatic category (IEC 60721-3-4)		4K	(4H	
Isolation method	Transformerless			
Power loss in night mode		<:	ıW	

Inverter power quality response modes	
Power quality response modes	Default operation per AS/NZS 4777.2:2015
Volt-watt response mode	Default: Enabled

Volt-var response mode	Default: Disabled
Fixed power factor mode	Default: Disabled
Reactive power mode	Default: Disabled
Characteristic power factor curve for $\cos \varphi$ (P)	Default: Disabled

10. TROUBLE SHOOTING

Earth Fault Alarm

This inverter complies with IEC 62109-2 clause 13.9 for earth fault alarm monitoring. If an **Earth Fault Alarm** occurs, the **error code 6** will be displayed on the LCD. Red LED indicator will also light up.

Full Error Code and Corrective Measures

When the PV system does not operate normally, we recommend the following solutions for quick troubleshooting. If an error occurs, the Error code will be displayed on the inverter's screen, the red LED will light up. The corresponding corrective measures are as follows:

Error Code	Fault Name	Description	Corrective Measures
1	Functional fault in Micro-Controller Unit (MCU)	MCU abnormal self-check in start process	Disconnect the inverter from the utility grid and the PV array, and reconnect it after LED turns off. If this fault is still being displayed, please contact service.
2	A faulty current sensor detected	AC current sensor detect current abnormal in the start process	Disconnect the inverter from the utility grid and the PV array, and reconnect it after LED turns off. If this fault is still being displayed, please contact service.
3	Ground fault circuit interrupter (GFCI) sensor error	GFCI sensor self-check abnormal	Disconnect the inverter from the utility grid and the PV array, and reconnect it after LED turns off. If this fault is still being displayed, please contact service.
4	A faulty grid relay detected	The difference between INV voltage and output voltage exceeds limit.	1. Disconnect the inverter from the utility grid and the PV array, and reconnect it after LED turns off. 2. If the fault persists, measure the phase to phase voltage and phase to zero and zero to ground voltage with a multimeter to ensure that the voltage is normal and the zero to ground voltage value should not be greater than 10V. 3. Disconnect the inverter from the utility grid and the PV array, and reconnect it after LED turns off. If this fault is still being displayed, please contact service.

	PV voltage too high	When the PV voltage of any	Check the open-circuit voltages of the strings and make sure it is
5		circuit is greater than 1020V,	below the maximum DC input voltage of the inverter. If the input
		it is determined as the PV	voltage lies within the permissible range while the fault occurs,
		voltage is too high.	please contact the service.
6	Surface insulation resistance error	In the process of power on and start-up, the insulation impedance of PV + and PV - to ground is detected. When the detection insulation impedance is less than 200kohm, it is judged as insulation fault.	1. If it happens occasionally, it may be caused by rainy or humid environment. After the fault is eliminated, the inverter can resume normal operation without other actions. 2. If there is continuous alarm, please check the PV array's insulation to ground and make sure that the insulation resistance to ground is greater than $200 \text{K}\Omega$. Otherwise, visual inspection of all PV cables and modules. Make sure the grounding connection of the inverter is reliable.
		insulation fault.	If all above are normal, please contact the service.
7	Ground fault circuit interrupter (GFCI) exceeds the permissible range	residual current over the permission range	Make sure the grounding connection of the inverter is reliable. Make a visual inspection of all PV cables and modules. If this fault is still shown, contact the service.
			Please confirm:
8	Inverter temperature too	Heat sink and internal environment temperature higher than 85 degree	1. Whether the airflow to the heat sink is obstructed. 2. Whether the installation site is in direct sunlight and ambient temperature around the inverter is too high. If all above is normal, contact the service.
9	Utility grid disconnected	inverter detected grid voltage failed	1. If it happens occasionally, it belongs to the short-time abnormality of the power grid, the inverter will return to normal operation after detecting that the power grid is normal, and there is no need to deal with it. 2. If it cannot be recovered for a long time, please confirm: ①whether the AC circuit breaker is disconnected ②whether the AC terminal or fuse is in good contact ③whether the power supply line is normal If this fault is still being shown, contact the service.

		1	
			1.If it happens occasionally, it belongs to the short-time
	Grid voltage exceeds the permissible range	grid voltage exceeds the Safety regulations	abnormality of the power grid, the inverter will return to normal
			operation after detecting the normal power grid, and there is no
			need to deal with it.
			In case of frequent occurrence but automatic recovery, please
			confirm if the grid voltage is outside the permissible range due to
			local grid conditions, try to modify the values of the monitored
10			operational limits after informing the electric utility company first.
			3.If it cannot be recovered for a long time, please confirm:
			①whether the AC circuit breaker is disconnected
			②whether the AC terminal is in good connection
			③whether the power supply line is normal
			④whether the AC cable wiring (such as wire length and wire
			diameter) complies with the user manual guidance
			5whether the safety regulation settings are normal
	Grid frequency exceeds the permissible range	grid frequency exceeds the Safety regulations	1.If it happens occasionally, it belongs to the short-time
			abnormality of the power grid, the inverter will return to normal
			operation after detecting the normal power grid, and there is no
			need to deal with it.
			In case of frequent occurrence but automatic recovery, please
			confirm if the grid voltage is outside the permissible range due to
11			local grid conditions, try to modify the values of the monitored
			operational limits after informing the electric utility company first.
			3.If it cannot be recovered for a long time, please confirm:
			①whether the AC circuit breaker is disconnected
			@whether the AC terminal is in good connection
			3whether the power supply line is normal
			④ whether the safety regulation settings are normal
	DC component of		
	the electricity	the current exceeds 1A in	Disconnect the inverter from the utility grid and the PV array, and
12	exceeds the	stastic state and 4A in	reconnect it after LED turns off. If this fault is still being displayed,
	permissible range	dynamic state	please contact the service.
L	<u> </u>	L	

13	EEPROM Error, e.g. transition disturbance	Micro CPU read EEPROM failed	Disconnect the inverter from the utility grid and the PV array, and reconnect it after LED turns off. If this fault is still being displayed, please contact the service.
14	Internal communication	Master CPU communicate with slave CPU abnormal	Disconnect the inverter from the utility grid and the PV array, and reconnect it after LED turns off. If this fault is still being displayed, please contact the service.
15	Bus-voltage too	Bus-voltage is greater than 1000V	Check the open-circuit voltages of the strings and make sure it is below the maximum DC input voltage of the inverter. If the input voltage lies within the permissible range while the fault occurs, please contact the service.
16	Bus-voltage too	Bus-voltage is 20V lower than standard Bus-voltage	Check the open-circuit voltages of the strings and make sure it is below the maximum DC input voltage of the inverter. If the input voltage lies within the permissible range while the fault occurs, please contact the service.
17	DRM S9 Error	DRM switch S9 fault	Check the connection of DRM device. If the DRM device is connected normally while this fault occurs, please contact the service.
18	DRM S0 Error	DRM switch S0 fault	Check the connection of DRM device. If the DRM device is connected normally while this fault occurs, please contact the service.
19	N and PE voltage exceeds permitted range		Check if the inverter is securely grounded.

11. SYSTEM MAINTENANCE

For the inverter's long-term performance, it is suggested to maintain your inverter regularly:

NOTICE:

HEAT SINK MIGHT INDUCE INJURY

When the inverter is operating, the heat sink might exceed 60°C

- Please disconnect all electrical cables and connections. Wait for the inverter to cool down completely.
- Use compressed air cleaning or a soft brush to clean the inverter heat sink.
- ALL aggressive chemicals, cleaning solvents or strong detergents are FORBIDDED

Content	Maintenance Measures	Cycle	
	Check if the heat sink is covered and dusted		
Cyntam	Maintenance of DC Switch can be performed at	Annually OR Half a year	
System Cleaning	night. Turn the switch to ON and OFF positions		
Clearing	for 4~5 times.		
	• Use a wet cloth to clean the display		
	• Inspect the enclosure for damage/deformation		
System Status	• Listen for abnormal noises during operation	Half a year	
System Status	Check if the parameters are normal during		
	operation		
	•Check if the cables are loose	Half a year after first	
Commissioning	•Check if the cable insulations are damaged,	commissioning	
	especially the parts in contact with metal surfaces	Annually OR Half a year	
		Half a year after first	
Grounding	Check if the cables are securely grounded	commissioning	
		Annually OR Half a year	

12. RESTARTS

When reconnecting the inverter for electrical power supply, please follow the commissioning procedures and safety instructions as described in **Section 6** when applicable (e.g. DC Wires need to be reassembled).

Please run safety checks as described in **Section 7** before closing the DC Switch and starting up again,

13. CERTIFICATES

Grid Standards	EN50549-1, AS/NZS4777.2, G98, G99, NBR16149, NB/T32004, IEC61727
Safety Standards	IEC/EN62109-1/-2, NB/T32004
Electromagnetic Compatibility (EMC)	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, NB/T 32004











14. WARRANTY TERMS AND CONDITIONS

Period of validity of the warranty and affected products

Western CO. S.r.l. offers a ten-year warranty in the event of defects on entire range of W-HPT grid-tied inverters.

The default warranty period is 10 years from the date shown on the receipt confirming the purchase of the product and in any case may exceed 63 months from the date of production.

Keep in a safe place the Invoice (or the Fiscal Receipt) which may be requested by Western CO. S.r.l. whenever the warranty is used, otherwise the warranty obligations will lapse.

Technical assistance under warranty is provided exclusively at the only Western CO. S.r.l. technical support centre located in via Pasubio 1/3 - 63074 San Benedetto del Tronto (AP) – ITALY.

Excluded inspections and / or interventions in place under warranty.

Any references and contacts are available at this link:

https://www.western.it/en/contacts

Warranty terms and conditions

- This warranty covers faults in those products that can be proven to be a material and / or factory defect. The product will be repaired or replaced (at the discretion of Western CO. S.r.l.) in the Support Centre.
- Any interventions carried out by unauthorized Support Centres, as well as the alteration
 of the original plates or the cancellation of the Serial number (even partial), will
 automatically invalidate any warranty claim.
- The removal of the rivets for the opening of the inverter if not expressly authorized by the Western Support Centre - will automatically invalidate any warranty claim.
- Western CO. S.r.l. is not liable for damage caused to the product by transport; the Buyer
 must ensure that the packaging is adequate and able to protect the product from
 breakage and impact caused by the transport itself. It is advisable to keep the original
 packaging.
- This warranty does not cover damage caused by: carelessness and negligence, incorrect
 and improper use of the product, any damage deriving from the use of the product

- because of supply voltages different from that indicated, and any damage deriving from modifications made to the device is both on the electric and on the aesthetic parts.
- The use of the device outside normal safety conditions releases the Western CO. S.r.l. from all civil and criminal liability.
- Any damage caused by lightning, fire, force majeure of any kind excludes any liability of Western CO. S.r.I.
- Western CO. S.r.l. is not liable for consequential and consequent damages to the device, thus excluding any compensation in favour of the Buyer or the Retailer.
- Any technical or aesthetic changes, any improvements to the product that were put in place over time, do not require Western CO. S.r.l. to modify also the devices previously produced.
- If the device is replaced the remaining warranty period will be assigned to the regenerated device.
- At the end of the warranty period (10 years) or the termination of one of the causes that give the right to the warranty itself, the assistance will take place with the charge of the costs incurred for the replacement of parts and labor costs, subject to prior notice for repair quote.

Warranty assistance management

- The customer in need of assistance can contact the Western CO. S.r.l. support centre in the contacts indicated at this link:
 - https://www.western.it/en/contacts/
- The device in need of assistance must always be delivered or sent carriage paid (at the Customer's expense), upon registration and opening of a support ticket at the following link: https://supporto.western.it/?&lang=en_us
- Any shipments must be agreed with Western CO S.r.l. support centre and in any case may an unauthorized dispatch be carried out.
- The material must always be accompanied by the return document available on the support page or downloadable from the following link: https://www.western.it/en/warranty/ under Return note.

- The material under warranty will be returned to the customer within a maximum of 5 working days from the date of receipt at our warehouse. Any delays not dependent on Western CO. S.r.l. will be promptly communicated to the Customer.
- The method of resolving the complaint is at the sole discretion of Western CO. S.r.l.
- In case of device out of warranty, Western CO. S.r.l. will issue a repair quote (if possible)
 by sending it via e-mail to the Customer.

WESTERN CO. S.r.l.

Via Pasubio 1/3

63074 San Benedetto del Tronto (AP)

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e-mail: info@western.it

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