

# CERTIFICATE OF CONFORMITY

## CERTIFICATO DI CONFORMITÀ

Issued to: V-TAC EUROPE LTD  
Rilasciato a: Karavelow 9B, bul.L, Plovdiv 4000, Bulgaria

For the product: Hybrid Inverter  
Tipo prodotto:

Trade name: **V-TAC**  
Marchio: Meaningful Innovation.

Type/Model: VT-6607100, VT-6607101, VT-6607102, VT-6607125, VT-6607133-1, VT-6607136-1,  
Riferimento modello: VT-6607133, VT-6607136, VT-6607104, VT-6607146, VT-6607105, VT-6607155, VT-6607106, VT-AF4K-SLP, VT-AF4.6K-SLP, VT-AF5K-SLP, VT-AF5.5K-SLP, VT-AF6K-SLP, AF6K-SLP, VT-6607111, VT-6607115, VT-6607120, VT-6607124, VT-6607134, VT-6607137, VT-6607144, VT-6607147, VT-6607150, VT-6607156, VT-6607160

Ratings: See Annex  
Dati di targa:

Manufactured by: V-TAC EUROPE LTD  
Costruttore: Karavelow 9B, bul.L, Plovdiv 4000, Bulgaria

Requirements: CEI 0-21:2022-03  
Requisiti: *Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica*

The tested models are suitable for installation in systems with a total power greater than 11.08 kW.

*I modelli testati sono adatti per l'installazione in sistemi con potenza di uscita maggiore di 11.08 kW.*

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6192501.51

*Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6192501.51*

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The certificate does not include an assessment of the manufacturer's production.

Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

*Il sottoscritto dichiara che il prodotto di cui sopra è conforme ai requisiti tecnici menzionati. Questo attestato di conformità è rilasciato sulla base dei risultati di prova riferiti nel rapporto sopra menzionato.*

*La valutazione non include una verifica della produzione di serie né del luogo di produzione.*

This Test Certificate expires at the latest on 2029-07-09 or expires upon withdrawal of one of the above mentioned standards.

*Il presente certificato di prova scade al più tardi il 2029-07-09 o scade al momento del ritiro di uno dei suddetti standard.*

Shanghai, 9 July 2024

Certificate Number: 6192501.02COC

DEKRA Testing and Certification (Shanghai) Ltd.

  
Cliff Lin  
Certification Manager

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ESA-CER-F021 v4.1



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## Ratings of the testing Hybrid Inverter:

Valutazioni dell'invertitore ibrido di prova:

Models	VT-6607100	VT-6607101	VT-6607102	VT-6607125	VT-6607133-1	VT-6607136-1
<b>PV input:</b>						
Max PV voltage (V)	550					
MPPT voltage range (V)	80-500					
Max PV current (A)	18.5					
Isc PV (A)	26					
Max PV power (W)	1500	2300	3000	3800	4500	5400
<b>Battery port:</b>						
Battery type	Rechargeable Li-ion Battery/ LiFePO4/ Lead-acid					
Battery normal voltage (range) (Vdc)	51.2 (40-60)					
Max charge/discharge current (A)	25	40	50	63	80	80
Max charge/discharge power (W)	1000	1500	2000	2500	3000	3600
<b>AC grid (input and output):</b>						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated AC power (W)	1000	1500	2000	2500	3000	3600
Max AC apparent power (VA)	1000	1500	2000	2500	3000	3600
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)					
<b>AC load output (stand alone):</b>						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated continuous AC power (W)	1000	1500	2000	2500	3000	3600
Max continuous AC apparent power (VA)	1000	1500	2000	2500	3000	3600
<b>General:</b>						
Protection class	I					
Degree of protection	IP65					
Overvoltage category	II(DC), III(AC)					
Ambient temperature	-25...+60°C (Derating > 45°C)					

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Models	VT-6607133	VT-6607136	VT-6607104	VT-6607146	VT-6607105	VT-6607155	VT-6607106
<b>PV input:</b>							
Max PV voltage (V)	550						
MPPT voltage range (V)	80-500						
Max PV current (A)	18.5 x 2						
Isc PV (A)	26 x 2						
Max PV power (W)	4500	5400	6000	6900	7500	8300	9000
<b>Battery port:</b>							
Battery type	Rechargeable Li-ion Battery/ LiFePO4/ Lead-acid						
Battery normal voltage (range) (Vdc)	51.2 (40-60)						
Max charge/ discharge current (A)	80						
Max charge/ discharge power (W)	3000	3600	4000	4600	4800	4800	4800
<b>AC grid (input and output):</b>							
Rated voltage (V)	L/N/PE, 230Vac						
Rated frequency (Hz)	50						
Max AC current (A)	14	17	19	22	23	26	28
Rated AC power (W)	3000	3600	4000	4600	5000	5500	6000
Max AC apparent power (VA)	3000	3600	4000	4600	5000	5500	6000
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)						
<b>AC load output (stand alone):</b>							
Rated voltage (V)	L/N/PE, 230Vac						
Rated frequency (Hz)	50						
Max AC current (A)	14	17	19	22	23	26	28
Rated continuous AC power (W)	3000	3600	4000	4600	5000	5500	6000
Max continuous AC apparent power (VA)	3000	3600	4000	4600	5000	5500	6000
<b>General:</b>							
Protection class	I						
Degree of protection	IP65						
Overvoltage category	II(DC), III(AC)						
Ambient temperature	-25...+60°C (Derating > 45°C)						

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Models	VT-AF4K-SLP	VT-AF4.6K-SLP	VT-AF5K-SLP	VT-AF5.5K-SLP	VT-AF6K-SLP, AF6K-SLP
<b>PV input:</b>					
Max PV voltage (V)	550				
MPPT voltage range (V)	80-500				
Max PV current (A)	18.5 x 2				
Isc PV (A)	26 x 2				
Max PV power (W)	6000	6900	7500	8300	9000
<b>Battery port:</b>					
Battery type	Rechargeable Li-ion Battery/ LiFePO4/ Lead-acid				
Battery normal voltage (range) (Vdc)	51.2 (40-60)				
Max charge/discharge current (A)	120				
Max charge/discharge power (W)	4000	4600	5000	5500	6000
<b>AC grid (input and output):</b>					
Rated voltage (V)	L/N/PE, 230Vac				
Rated frequency (Hz)	50				
Max AC current (A)	19	22	23	26	28
Rated AC power (W)	4000	4600	5000	5500	6000
Max AC apparent power (VA)	4000	4600	5000	5500	6000
Power factor range	1.0 (-0.8~ +0.8 adjustable)				
<b>AC load output (stand alone):</b>					
Rated voltage (V)	L/N/PE, 230Vac				
Rated frequency (Hz)	50				
Max AC current (A)	19	22	23	26	28
Rated continuous AC power (W)	4000	4600	5000	5500	6000
Max continuous AC apparent power (VA)	4000	4600	5000	5500	6000
<b>General:</b>					
Protection class	I				
Degree of protection	IP65				
Overvoltage category	II(DC), III(AC)				
Ambient temperature	-25...+60°C (Derating > 45°C)				

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Models	VT-6607111	VT-6607115	VT-6607120	VT-6607124	VT-6607134	VT-6607137
<b>Battery port:</b>						
Battery type	Rechargeable Li-ion Battery/ LiFePO4/ Lead-acid					
Battery normal voltage (range) (Vdc)	51.2 (40-60)					
Max charge/ discharge current (A)	25	40	50	63	80	80
Max charge/ discharge power (W)	1000	1500	2000	2500	3000	3600
<b>AC grid (input and output):</b>						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated AC power (W)	1000	1500	2000	2500	3000	3600
Max AC apparent power (VA)	1000	1500	2000	2500	3000	3600
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)					
<b>AC load output (stand alone):</b>						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated continuous AC power (W)	1000	1500	2000	2500	3000	3600
Max continuous AC apparent power (VA)	1000	1500	2000	2500	3000	3600
<b>General:</b>						
Protection class	I					
Degree of protection	IP65					
Overvoltage category	II(DC), III(AC)					
Ambient temperature	-25...+60°C (Derating > 45°C)					

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Models	VT-6607144	VT-6607147	VT-6607150	VT-6607156	VT-6607160
<b>Battery port:</b>					
Battery type	Rechargeable Li-ion Battery/ LiFePO4/ Lead-acid				
Battery normal voltage (range) (Vdc)	51.2 (40-60)				
Max charge/discharge current (A)	120	120	120	120	120
Max charge/discharge power (W)	4000	4600	5000	5500	6000
<b>AC grid (input and output):</b>					
Rated voltage (V)	L/N/PE, 230Vac				
Rated frequency (Hz)	50				
Max AC current (A)	19	22	23	26	28
Rated AC power (W)	4000	4600	5000	5500	6000
Max AC apparent power (VA)	4000	4600	5000	5500	6000
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)				
<b>AC load output (stand alone):</b>					
Rated voltage (V)	L/N/PE, 230Vac				
Rated frequency (Hz)	50				
Max AC current (A)	19	22	23	26	28
Rated continuous AC power (W)	4000	4600	5000	5500	6000
Max continuous AC apparent power (VA)	4000	4600	5000	5500	6000
<b>General:</b>					
Protection class	I				
Degree of protection	IP65				
Overvoltage category	II(DC), III(AC)				
Ambient temperature	-25...+60°C (Derating > 45°C)				

Type of generating unit:

*Tipologia di apparato:*

Static Conversion Device <i>Dispositivo di conversione statica</i>	Interface Protection <i>Protezione di interfaccia</i>	Interface Protection Device <i>Dispositivo di interfaccia</i>	Rotating Generator Device <i>Dispositivo di generazione rotante</i>
Yes/Sì	Yes/Sì	Yes/Sì	No/No

REMARK: the device is capable to limit the Idc to 0.5% of the nominal current

NOTA: Il dispositivo è in grado di limitare la Idc allo 0.5% della corrente nominale

Hardware version: 1.01

Versione hardware: 1.01

Firmware release (SW): V02

Revisione firmware (SW): V02

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**The battery used for testing with the Hybrid Inverter covered by this certificate:**

*La batteria utilizzata per i test con l'invertitore ibrido coperto dal presente certificato:*

Battery Models	VT48200B			
Manufacturer	V-TAC EXPORTS LIMITED			
Number of battery module in parallel	1	2	3	4
Nominal Voltage	48 V			
Nominal capacity	200 Ah	400 Ah	600 Ah	800 Ah
Battery System Capacity	9.6 kWh	19.2 kWh	28.8 kWh	38.4 kWh
Number of battery module in parallel	5	6	7	8
Nominal Voltage	48 V			
Nominal capacity	1000 Ah	1200 Ah	1400 Ah	1600 Ah
Battery System Capacity	48.0 kWh	57.6 kWh	67.2 kWh	76.8 kWh
Number of battery module in parallel	9	10	11	12
Nominal Voltage	48 V			
Nominal capacity	1800 Ah	2000 Ah	2200 Ah	2400 Ah
Battery System Capacity	86.4 kWh	96.0 kWh	105.6 kWh	115.2 kWh
Number of battery module in parallel	13	14	15	-
Nominal Voltage	48 V			
Nominal capacity	2600 Ah	2800 Ah	3000 Ah	-
Battery System Capacity	124.8 kWh	134.4 kWh	144 kWh	-
Remark:	<p>The CB test certificate No. of the battery: DE 7- 0902                      When the batteries are connected in parallel, the charge/ discharge current is superimposed and is limited by the maximum current of the battery port of the Hybrid Inverter.                      The batteries are not integrated into the Hybrid Inverter and must be installed according to the local regulations.</p>			

**Testing Laboratory:**

**Laboratorio prove:**

Testing Laboratory for CEI 0-21:2022-03  
 DEKRA Testing and Certification (Suzhou) Co., Ltd.  
 No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China  
 Accreditation Number: L5313 (CNAS-ILAC)

Testing Laboratory for EMC:

1. Intertek Testing Services Shanghai  
 Building No.86, 1198 Qinzhou Road (North), Caohejing Development Zone, Shanghai 200233, China  
 Accreditation Number: 3309.02 (A2LA-ILAC)
2. Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.  
 No.103, Caobao Road, Xuhui District, Shanghai, China  
 Accreditation Number: L0130 (CNAS-ILAC)

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