

CERTIFICATE OF CONFORMITY

CERTIFICATO DI CONFORMITÀ

Issued to: Shanghai PYTES Energy Co., Ltd.
Rilasciato a: No.3492 Jinqian Road, Fengxian District, Shanghai, CHINA

For the product: Inverter
Tipo prodotto:

Trade name: Victron
Marchio:

Type/Model: Quattro 48/15000/200-100/100 230V VE.Bus, MultiPlus-II 48/15000/200-100 230V
Riferimento modello:

Ratings: See Annex
Dati di targa:

Manufactured by: Victron Energy B.V.
Costruttore: De Paal 35, 1351 JG, Almere, The Netherlands

Requirements: CEI 0-21:2022-03+V1:2022-11+V2:2024-01
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. 6234628.50

Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6234628.50

The examination has been carried out on one single specimen of the product. 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.

L'esame è stato effettuato su un unico esemplare del prodotto. 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 2030-08-01 or expires upon withdrawal of one of the above mentioned standards.

Il presente certificato di prova scade al più tardi il 2030-08-01 o scade al momento del ritiro di uno dei suddetti standard.

Shanghai, 1 August 2025

Certificate Number: 6234628.01COC

DEKRA Testing and Certification (Shanghai) Ltd.

Kreny Lin
Certification Manager

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ESA-CER-F021 v4.1

Document no. : 6234628.01COC

Ratings of the testing inverter:

Valutazioni dell'invertitore ibrido di prova:

Models	Quattro 48/15000/200-100/100 230V VE.Bus, MultiPlus-II 48/15000/200-100 230V
PV input:	
Max PV voltage (V)	450
MPPT voltage range (V)	65-450
Battery port:	
Battery type	Rechargeable Li-ion Battery
Battery normal voltage (range) (Vdc)	48 (38-66)
Max charge/ discharge current (A)	200/350
AC grid (input and output):	
Rated voltage (V)	L/N/PE, 230Vac
Rated frequency (Hz)	50
Max AC current (A)	100
Rated AC power (W)	12000
Max AC apparent power (VA)	15000
Power factor range	1.0 (-0.9 ~ +0.9 adjustable)
AC load output (stand alone):	
Rated voltage (V)	L/N/PE, 230Vac
Rated frequency (Hz)	50
Max AC current (A)	100
Rated continuous AC power (W)	12000
Max continuous AC apparent power (VA)	15000
General:	
Protection class	I
Degree of protection	IP20
Overvoltage category	II(DC), III(AC)
Ambient temperature	-25...+65°C (Derating > 40°C)

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The battery used for testing with the inverter covered by this certificate:

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

Battery Models	V5°, V5°α			
Manufacturer	Shanghai PYTES Energy Co., LTD.			
Number of battery module in parallel	1	2	3	4
Nominal Voltage	51.2 V			
Nominal capacity	100 Ah	200 Ah	300 Ah	400 Ah
Battery System Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Number of battery module in parallel	5	6	7	8
Nominal Voltage	51.2 V			
Nominal capacity	500 Ah	600 Ah	700 Ah	800 Ah
Battery System Capacity	25.60 kWh	30.72 kWh	35.84 kWh	40.96 kWh
Number of battery module in parallel	9	10	11	12
Nominal Voltage	51.2 V			
Nominal capacity	900 Ah	1000 Ah	1100 Ah	1200 Ah
Battery System Capacity	46.08 kWh	51.20 kWh	56.32 kWh	61.44 kWh
Number of battery module in parallel	13	14	15	16
Nominal Voltage	51.2 V			
Nominal capacity	1300 Ah	1400 Ah	1500 Ah	1600 Ah
Battery System Capacity	66.56 kWh	71.68 kWh	76.80 kWh	81.92 kWh
Remark: The CB test certificate No. of the battery: SG PSB-BT-04048 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 Inverter. The batteries are not integrated into the inverter and must be installed according to the local regulations.				

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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 I_{dc} to 0.5% of the nominal current

NOTA: Il dispositivo è in grado di limitare la I_{dc} allo 0.5% della corrente nominale

Hardware version: 2619508

Versione hardware: 2619508

Firmware release (SW): v3.34

Revisione firmware (SW): v3.34

Testing Laboratory:

Laboratorio prove:

Testing Laboratory for CEI 0-21:2022-03+V1:2022-11+V2:2024-01

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. 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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