

WE DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE PRODUCT

DICHARIAMO SOTTO LA NOSTRA SOLA RESPONSABILITÀ CHE IL PRODOTTO
WIR ERKLÄREN EIGENVERANTWORTLICH, DASS DIE PRODUKT
NOUS DÉCLARONS SOUS NOTRE SEULE RESPONSABILITÉ QUE EL PRODUCTO
EL FABRICANTE DECLARA BAJO SU EXCLUSIVA RESPONSABILIDAD QUE LE PRODUIT

CATEGORY	HYBRID INVERTER WITH STORAGE BATTERY SYSTEM
CATEGORIA	INVERTITORE IBRIDO CON SISTEMA DI BATTERIA ACCUMULO
KATEGORIE	HYBRID-WECHSELRICHTER MIT SPEICHERBATTERIESYSTEM
CATEGORIE	INVERSEUR HYBRIDE AVEC SYSTÈME DE BATTERIE D'ACCUMULATION
CATEGORIA	INVERSOR HÍBRIDO CON SISTEMA DE BATERÍA DE ACUMULACIÓN

TYPE / TIPO / TYP / TYPE / TIPO

CEC-T 10K + CEC-S B 5K

•VERSIONE FW : V1.0.0 E SUCCESSIVE

•POTENZA NOMINALE : 10000 W

•NUMERO DI FASI : 3

•NOTA : IL DISPOSITIVO E' IN GRADO DI LIMITARE LA I_{dc} ALLO 0,5% DELLA CORRENTE NOMINALE.

- **COMPLIES WITH THE FOLLOWING EC DIRECTIVES, INCLUDING THE MOST RECENT AMENDMENTS, AND THE RELEVANT NATIONAL HARMONISATION LEGISLATION CURRENTLY IN FORCE:**
- RISULTA IN CONFORMITÀ CON QUANTO PREVISTO DALLE SEGUENTI DIRETTIVE CE, COMPRESSE LE ULTIME MODIFICHE, E CON LA RELATIVA LEGISLAZIONE NAZIONALE DI RECEPIMENTO:
- DEN IN DEN FOLGENDEN EG-RICHTLINIEN VORGESEHENEN VORSCHRIFTEN, EINSCHLIEßLICH DER LETZTEN ÄNDERUNGEN, SOWIE DEN ANGEWANDTEN LANDESGESETZEN ENTSPRICHT:
- EST CONFORME AUX DIRECTIVES CE SUIVANTES, Y COMPRIS LES DERNIÈRES MODIFICATIONS, ET À LA LÉGISLATION NATIONALE D'ACCUEIL CORRESPONDANTE:
- ES CONFORME A LAS SIGUIENTES DIRECTIVAS CE, INCLUIDAS LAS ÚLTIMAS MODIFICACIONES, Y A LA RELATIVA LEGISLACIÓN NACIONAL DE RECEPCIÓN:

<input checked="" type="checkbox"/>	2014/35/EC	low voltage directive / direttiva bassa tensione Bestimmungen der Niederspannungsrichtlinie / directive basse tension / directiva de baja tensión
<input checked="" type="checkbox"/>	2014/30/UE	electromagnetic compatibility / compatibilità elettromagnetica Elektromagnetische Verträglichkeit / compatibilité électromagnétique / compatibilidad electromagnética
<input checked="" type="checkbox"/>	2011/65/UE	2015/863/UE RoHS


-Unit manufactured and tested according to the followings Standards:
-Unità costruita e collaudata in conformità alle seguenti Normative:
-Unité construite et testée en conformité avec les Réglementations suivantes
-Unidad construida y probada de acuerdo con las siguientes Normativas
-Gebautes und geprüftes Gerät nach folgenden Normen

CEI EN IEC 63000 :2021 EN 62109-1 :2021 EN 61209-2 :2011
EN 50549-1 :2019/AC :2019 IEC 62109-1 :2010 EN 62109-1 :2010
IEC 62109-2 :2011 EN 62109-2 :2011 EN IEC 61000-6-1 :2019
EN IEC 61000-6-2 :2019 EN IEC 61000-6-3 :2021 EN IEC 61000-6-4 :2019
EN IEC 61000-3-2 :2019/A1 :2021 EN 61000-3-3 :2013/A2 :2021
EN IEC 61000-3-11 :2019 EN 61000-3-12 :2011
IEC 62040-1 :2017 IEC 62619 :2017
IEC 63056 :2020 EN IEC 61000-6-1 :2019 EN IEC 61000-6-3 :2021
EN IEC 61000-6-2 :2019 EN IEC 61000-6-4 :2019
EN IEC 61000-3-11 :2019 EN 61000-3-12 :2011
CEI 0-21 :2022

Con la presente dichiarazione, resa ai sensi degli art.47 DPR 28 dicembre 2000. N. 445, consapevole delle responsabilità e delle sanzioni penali previste dall'art. 76 del citato DPR per false attestazioni e dichiarazioni mendaci, il sottoscritto Stefano Bellò, in qualità di legale rappresentante della ditta Clivet S.p.A. in via Camp Lonc, n° 25 32032 Feltre Belluno – Cod. fisc. BLLSFN73E21E970T.

DICHIARA

che l'inverter indicato al punto "TIPO a cui si riferisce la dichiarazione " è conforme alle prescrizioni della norma CEI 0-21:2022 emesso da TÜV SÜD Product Service GmbH con accreditamento D-PL-19065-01-01 Fascicolo di Prova: 64.290.233.001701 Attesta altresì che la produzione dei dispositivi avviene in regime di qualità (secondo ISO 9001, ed. 2015 e s.m.i.)


NAME / NOME / VORNAME / PRÉNOM / NOMBRE		STEFANO
SURNAME / COGNOME / ZUNAME / NOM / APELLIDOS		BELLÒ
FELTRE, <u>09/08/2023</u>	COMPANY POSITION / POSIZIONE / BETRIEBSPOSITION / FONCTION / CARGO	AMMINISTRATORE DELEGATO

Compliance Document

No. D 104147 0049 Rev. 00

Holder of Certificate:	Clivet S.p.A. Via Camp Lonc, 25 32032 Z.I. Villapaiera, Feltre(BL) ITALY
Product:	Converter (Hybrid Inverter with storage battery system)
Model(s):	Inverter models: CEC-T 8K, CEC-T 10K, CEC-T 12K Battery modes: CEC-S B 5K-H, CEC-S B 5K
Parameters:	See page 2
Tested according to:	CEI 0-21:2022
Test report no.:	64290233001701

Date, 2023-04-26



(Billy Qiu)

Compliance Document

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Parameters:

Model:	CEC-T 8K	CEC-T 10K	CEC-T 12K
PV input parameter			
Maximum input voltage	1100 Vd.c.		
MPPT voltage range	140~1000 Vd.c.		
MPPT voltage range (full load)	380~850 Vd.c.	420~850 Vd.c.	480~850 Vd.c.
Maximum input current	2*15 Ad.c.		
PV I _{sc}	2*20 Ad.c.		
Battery input/output parameter			
Battery type	Lithium		
Input voltage range	44~58 Vd.c.		
Maximum input/output voltage	58 Vd.c.		
Maximum charging current	160 Ad.c.		
Maximum charging power	8000 W		
Maximum discharging current	160 Ad.c.	200 Ad.c.	
Maximum discharging power	8000 W	10000 W	
Grid parameter			
Rated input/output voltage	3/N/PE, 230/400 Va.c.		
Rated input/output frequency	50 Hz		
Maximum input current	25 Aa.c.		
Maximum input active power	16000 W	17800 W	
Maximum input apparent power	16000 VA	17800 VA	
Maximum input active power from grid to battery	8600 W		
Rated output current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Maximum continuous output current	12.8 Aa.c.	16.0 Aa.c.	19.2 Aa.c.
Rated output active power	8000 W	10000 W	12000 W
Maximum output active power	8000 W	10000 W	12000 W
Maximum output apparent power	8800 VA	11000 VA	13200 VA
Maximum output active power from battery to grid (without PV input)	7500 W	9300 W	
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		
Ambient temperature parameter			
Operation temperature range	-25°C to +40°C		
Storage temperature range	-40°C to +70°C		

Battery model parameters see below page 4. For more detail parameters, please see report pages 5 to 10.

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The following generators meet the requirements of CEI 0-21:2022				
Section A	Manufacturer	Clivet S.p.A. Via Camp Lonc, 25 32032 Z.I. Villapaiera, Feltre(BL) ITALY		
	Equipment type	Energy Storage Inverter with storage battery system		
	Brand	Clivet S.p.A.		
	Number of phase	<input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three phase Frequency: 50Hz Voltage: 230V/400V		
	Primary energy used	<input checked="" type="checkbox"/> Solar <input checked="" type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other:		
	Generator model	CEC-T 8K	CEC-T 10K	CEC-T 12K
	Rated active power output to Grid	8000 W	10000 W	12000 W
	Maximum apparent power output to Grid	8800 VA	11000 VA	13200 VA
	The generator:	<input checked="" type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting Idc to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency		
Section B	Characteristics of the interface protection system			
	Manufacturer	Clivet S.p.A. Via Camp Lonc, 25 32032 Z.I. Villapaiera, Feltre(BL) ITALY		
	Model	CEC-T 8K, CEC-T 10K, CEC-T 12K		
	Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated Remark: The application of Model CEC-T 12K in system may exceed 11.08kW on grid connection point, external interface protection system is required according to final installation requirement.		
Section C	Characteristics of inverter(s)			
	Model of inverter	CEC-T 8K	CEC-T 10K	CEC-T 12K
	Manufacturer of inverter	Clivet S.p.A.		
	Firmware version	V1.0.0		
	Rated power of inverter (P_{NINV})	8000 W	10000 W	12000 W

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Section E	Characteristics of the Storage System (SdA)				
	Inverter forming storage system				
	Inverter manufacturer	Clivet S.p.A.			
	Inverter model	CEC-T 8K	CEC-T 10K	CEC-T 12K	
	Battery 1 forming storage system				
	Battery manufacturer	Clivet S.p.A.			
	Battery model	CEC-S B 5K-H			
	Capacity of battery[kWh]	10.2 (With 2x battery units in parallel)	20.4 (With 4x battery units in parallel)	30.6 (With 6x battery units in parallel)	40.8 (With 8x battery units in parallel)
	Battery 2 forming storage system				
	Battery manufacturer	Clivet S.p.A.			
	Battery model	CEC-S B 5K			
	Capacity of battery[kWh]	10.2 (With 2x battery units in parallel)	20.4 (With 4x battery units in parallel)	30.6 (With 6x battery units in parallel)	40.8 (With 8x battery units in parallel)
	Remark: The Storage System parameters are referred to the report no: 64.290.23.30017.01				
	Type	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional			
	Batteries that can be used with the above static converters				
	Brand	Clivet S.p.A.			
	Technology	Lithium-ion			
	Models	CEC-S B 5K-H		CEC-S B 5K	
	CUS module (kWh)	10.2 (with 2*battery module)		10.2 (with 2*battery module)	
	BMS firmware version	P1755V100-1757V1.13			
Number of modules	2/4/6/8 pieces		2/4/6/8 pieces		
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with manufacturer's instruction.				



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Section I	References of the laboratories that performed the tests and their test reports (RdP)	
	Selected method	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory
	Test Reports (RdP)	Test report according to Annex A and Bbis: 64.290.23.30017.01
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-01
	Accreditation body ref.	DAkKS
Section M	Reference of the certification body	
	Certification Body	TÜV SÜD Product Service GmbH DAkKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013