

OFF-GRID SMART INVERTERS

Pure sine wave platforms for independent, backup and battery-based solar energy systems.

1.0-11.0 kW

12 / 24 / 48 V

MPPT + PWM



WIDE PV INPUT

Flexible array design



BATTERY OPTIONS

12 / 24 / 48 VDC



SMART MONITORING

Wi-Fi and BMS options



PROTECTED

Overload and short circuit

Four platforms. Fourteen documented configurations.

CW Enerji's current off-grid category is organized into four TommaTech series. The comparison below consolidates every configuration documented in the linked technical sheets, without repeating near-identical product pages.

**1.0-11.0 kW**

RATED POWER

**12 / 24 / 48 V**

BATTERY PLATFORMS

**UP TO 13 kW**

PV ARRAY POWER

**UP TO 6 UNITS**

PARALLEL CAPABILITY

01 NEW BASIC**1 / 3 / 5 kW**

PWM + MPPT documented configurations

[TECHNICAL SHEET](#)**02 C PRO****1.2 / 3 / 5 kW**

High-voltage MPPT and BMS interface

[TECHNICAL SHEET](#)**03 C PROX****1.5 / 4.2 / 6.2 / 8 kW**

Built-in Wi-Fi; dual output on 4.2K+

[TECHNICAL SHEET](#)**04 C PLUSX****11 kW**

Dual input/output; parallel up to 6 units

[TECHNICAL SHEET](#)

One power hub for solar, batteries and backup sources.

Off-grid inverters coordinate DC solar generation, battery charging and pure sine wave AC output. Selected models can also accept utility or generator input, manage source priority and maintain critical loads during supply interruptions.



TommaTech New Basic Series

CONSOLIDATED TECHNICAL DATA



1.0-5.0 kW

SINGLE-PHASE SMART INVERTER

 Grid + generator support

 Selectable input range

 Cold start

 Optional anti-dust kit

TECHNICAL PARAMETER	1K PWM	1K MPPT	3K PWM	3K MPPT	5K PWM	5K MPPT
Rated power (VA/W)	1000/1000	1000/1000	3000/3000	3000/3000	5000/5000	5000/5000
Battery voltage	12 V	12 V	24 V	24 V	48 V	48 V
Solar charger	PWM	MPPT	PWM	MPPT	PWM	MPPT
PV max. open-circuit	55 V	102 V	80 V	102 V	105 V	145 V
Max. PV array power	600 W	500 W	1200 W	1000 W	2400 W	3000 W
MPPT operating range	N/A	17-80 V	N/A	30-80 V	N/A	60-115 V
Solar charge current	50 A	40 A	50 A	40 A	50 A	60 A
AC charge current	20 A	20 A	25 A	25 A	60 A	60 A
Max. charge current	50 A	60 A	70 A	60 A	110 A	120 A
Surge power	2000 VA	2000 VA	6000 VA	6000 VA	10000 VA	10000 VA
Peak efficiency	90-93%	90-93%	90-93%	90-93%	90-93%	90-93%
Dimensions D x W x H	88 x 225 x 320 mm	88 x 225 x 320 mm	100 x 285 x 334 mm	100 x 285 x 334 mm	100 x 300 x 440 mm	100 x 300 x 440 mm
Net weight	4.4 kg	4.4 kg	6.3 kg	6.5 kg	8.5 kg	9.7 kg
Communication	USB / RS232	USB / RS232	USB / RS232	USB / RS232	USB / RS232	USB / RS232

COMMON OPERATING DATA

230 VAC · 170-280 / 90-280 VAC selectable · 50/60 Hz auto-sensing · 10/20 ms transfer · pure sine wave · -10 to 50 C

The linked New Basic datasheet documents PWM and MPPT configurations at 1, 3 and 5 kW; the category page currently exposes selected variants.

[DATASHEET](#)

TommaTech C Pro Series

CONSOLIDATED TECHNICAL DATA



1.2-5.0 kW

SINGLE-PHASE SMART INVERTER



Pure sine wave



BMS communication



Battery-independent



Mobile monitoring support

TECHNICAL PARAMETER	C Pro 1.2K	C Pro 3K	C Pro 5K
Rated power (VA/W)	1200/1200	3000/3000	5000/5000
Battery voltage	12 V	24 V	48 V
Solar charger	MPPT	MPPT	MPPT
PV max. open-circuit	350 V	450 V	500 V
Max. PV array power	2000 W	3000 W	5000 W
MPPT operating range	60-300 V	60-400 V	120-450 V
Max. PV input current	13 A	13 A	18 A
Solar charge current	100 A	100 A	100 A
AC charge current	80 A	80 A	100 A
Max. charge current	100 A	100 A	100 A
Surge power	2400 VA	6000 VA	10000 VA
Peak efficiency	90-93%	90-93%	90-93%
Dimensions D x W x H	90 x 288 x 357 mm	110 x 288 x 390 mm	120 x 300 x 440 mm
Net weight	6.5 kg	7.2 kg	10 kg
Communication	RS232 / RS485 / Wi-Fi support	RS232 / RS485 / Wi-Fi support	RS232 / RS485 / Wi-Fi support

COMMON OPERATING DATA

230 VAC · 170-280 / 90-280 VAC selectable · 50/60 Hz auto-sensing · 10/20 ms transfer · pure sine wave · -10 to 50 C
C Pro 1.2K is included because it appears in the linked official technical datasheet; the category page currently highlights 3K and 5K.

[DATASHEET](#)

TommaTech C ProX Series

CONSOLIDATED TECHNICAL DATA



1.5-8.0 kW

SINGLE-PHASE SMART INVERTER

-  Built-in Wi-Fi
-  BMS communication
-  Dual output on 4.2K+
-  Battery-independent

TECHNICAL PARAMETER	C ProX 1.5K	C ProX 4.2K	C ProX 6.2K	C ProX 8K
Rated power	1500 VA / 1500 W	4200 VA / 4200 W	6200 VA / 6200 W	8000 VA / 8000 W
PV + battery output	1500 W	4200 W	6200 W	8000 W
Battery-only output	1200 W	4000 W	5000 W	8000 W
AC outputs	Single	Dual	Dual	Dual
Battery voltage	12 V	24 V	48 V	48 V
Surge power	3000 VA	8400 VA	12400 VA	16000 VA
PV max. open-circuit	350 V	500 V	500 V	500 V
Max. PV array power	2000 W	5000 W	6500 W	10000 W (2 x 5000)
Max. PV input current	13 A	18 A	18 A	22 A x 2
MPPT operating range	30-300 V	30-450 V	90-450 V	90-450 V
Solar charge current	100 A	120 A	100 A	120 A
AC charge current	80 A	100 A	100 A	120 A
Max. charge current	100 A	120 A	100 A	120 A
Peak efficiency	93%	93%	93%	93%
Dimensions D x W x H	90 x 288 x 357 mm	115 x 300 x 435 mm	120 x 300 x 435 mm	141 x 322 x 497 mm
Net weight	6.6 kg	9 kg	10.4 kg	15 kg

COMMON OPERATING DATA

230 VAC · 170-280 / 90-280 VAC selectable · 50/60 Hz auto-sensing · 10/20 ms transfer · pure sine wave · -10 to 50 C
All four models use pure sine wave output, MPPT charging and RS232 / RS485 (BMS) / Wi-Fi communication.

[DATASHEET](#)

TommaTech C PlusX Series



11.0 kW

SINGLE-PHASE SMART INVERTER



Dual AC inputs + outputs



Up to 6 units parallel



2.8 in color LCD



Wi-Fi + OTA updates

RATED INVERTER POWER
11000 VA / 11000 W

PARALLEL CAPABILITY
Yes - up to 6 units

BATTERY VOLTAGE
48 VDC

SURGE POWER
22000 VA

MAXIMUM PV ARRAY
13000 W (6500 W x 2)

MPPT RANGE
90-450 VDC

PV OPEN-CIRCUIT MAX.
500 VDC

PV INPUT CURRENT
27 A x 2 (max. 40 A)

PV / AC / TOTAL CHARGE
150 A / 150 A / 150 A

EFFICIENCY
93%

DIMENSIONS
145 x 438 x 553.6 mm

NET WEIGHT
19.5 kg

COMMUNICATION + COMMON OPERATING DATA

USB / RS232 / RS485 / Wi-Fi / dry contact / BTS; optional GFCI, rapid shutdown and AFCI.
230 VAC · 170-280 / 90-280 VAC · 50/60 Hz · 10/20 ms transfer · pure sine wave · -10 to 50 C

DUAL AC INPUT + DUAL AC OUTPUT · EXTERNAL CT · COLOR LCD · MOBILE APP + OTA

Match the inverter platform to system priorities.

This matrix supports product screening. Final selection must confirm array voltage, battery current, load surge, generator behavior, cable protection and locally applicable electrical rules.

SERIES	POWER	BATTERY	PV ARRAY	CHARGER	OUTPUT	MONITORING	SCALABILITY
New Basic	1 / 3 / 5 kW	12 / 24 / 48 V	0.5-3.0 kW	PWM / MPPT	Single	USB / RS232	No parallel
C Pro	1.2 / 3 / 5 kW	12 / 24 / 48 V	2.0-5.0 kW	MPPT	Single	RS232 / RS485 / Wi-Fi*	No parallel
C ProX	1.5-8.0 kW	12 / 24 / 48 V	2.0-10.0 kW	MPPT	Single / dual	BMS + built-in Wi-Fi	No parallel listed
C PlusX	11 kW	48 V	13 kW	Dual MPPT	Dual	Multi-interface + Wi-Fi	Up to 6 units



PV WINDOW

Confirm string Voc remains below the inverter limit at the site's minimum temperature.



BATTERY CURRENT

High charge-current models require suitable battery BMS, cabling and protection.



SURGE LOADS

Motors, pumps and compressors must be checked against rated and surge capability.

* C Pro product page describes built-in Wi-Fi; the linked datasheet lists optional Wi-Fi in the communication interface.

Smart functions that simplify independent energy systems.

Functions vary by series and model. The icons below translate the technical documents into quick commercial talking points while keeping model-specific limits visible on the product pages.



REMOTE MONITORING

C ProX and C PlusX support integrated Wi-Fi and mobile-app visibility. C PlusX also supports OTA firmware updates.



BMS COMMUNICATION

Dedicated battery-management communication is available across C Pro, C ProX and C PlusX platforms.



PURE SINE WAVE

The documented platforms provide pure sine wave AC output for sensitive household and commercial loads.



SOURCE PRIORITY

New Basic supports configurable AC / solar priority and is compatible with utility and generator supply.



PROTECTION

Overload and short-circuit protection are highlighted; C PlusX also supports optional GFCI, rapid shutdown and AFCI detection.



PARALLEL OPERATION

C PlusX 11K supports up to six units in parallel, subject to the current manual and matched system design.

ENGINEERING NOTE

Feature availability does not replace system engineering. Use the exact model datasheet and installation manual before quotation approval, commissioning or warranty registration.

CE scope, warranty terms and official technical files.

The linked EC Declaration of Conformity covers the New, C Pro, C ProX and C PlusX families shown in this catalogue. Exact model names and the current validity period must be checked before tender or shipment.



EC DECLARATION OF CONFORMITY

Certificate no. **IDS.CE.2025.19713**

EN 62109-1:2010

EN 62109-2:2011

EN IEC 61000-6-2:2019

EN 61000-6-4:2007+A1:2011

EN 61000-3-11:2000

EN 61000-3-12:2011

Issue / validity: 04 Dec 2025 · Expiry: 04 Dec 2026



WARRANTY SUMMARY

2-year standard off-grid warranty

Product pages and datasheets also state 2-year product + 5-year parts warranty. The warranty conditions document governs eligibility, installation, annual inspection and claim evidence; confirm the current commercial terms for the destination market.

OFFICIAL DOCUMENT SET

New Basic Series

Technical sheet · User manual

[DATA](#)

[MANUAL](#)

C Pro Series

Technical sheet · User manual

[DATA](#)

[MANUAL](#)

C ProX 1.5 / 4.2 / 6.2K

Technical sheet · User manual

[DATA](#)

[MANUAL](#)

C ProX 8K

Technical sheet · Dedicated user manual

[DATA](#)

[MANUAL](#)

C PlusX 11K

Technical sheet · User manual

[DATA](#)

[MANUAL](#)

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POWER BEYOND THE GRID

Reliable equipment. Responsive export support.

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