

430 DC-DC

DC-DC CONVERTER FOR 1500 V BATTERY ENERGY STORAGE SYSTEMS PLUS PV-DC COUPLED

Bi-directional buck-boost converter for battery energy storage 1500 V systems plus PV-DC couple within central inverter solutions.

Highest flexibility and scalability for any battery configuration

The INGECON® SUN STORAGE 430 DC/DC PV COUPLED can be parallelized in order to adjust the PCS power to different battery configurations. This way, it makes easier the design of a wide diversity energy storage systems.

BESS augmentation strategy)

This converter allows for deploying a modular BESS augmentation strategy to compensate battery degradation over time.

Standard 5 years, extendible upon request

430 DC-DC

DC-DC converter for 1500 V battery storage systems plus PV-DC coupled

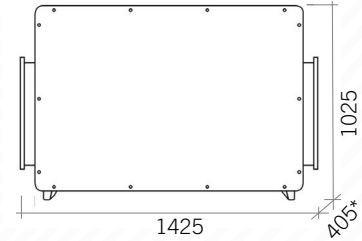
Features

- Three-level topology.
- 360 A output current.
- BESS-level battery management.
- Compatible with 1,500 V battery systems.
- Forced air ventilation for an optimized converter cooling.
- High protection degree
- IP66 / NEMA 3R.
- Fast & easy commissioning.
- Integrated web interface
- Single Pair Ethernet, CAN and Wi-Fi communications.

Protections

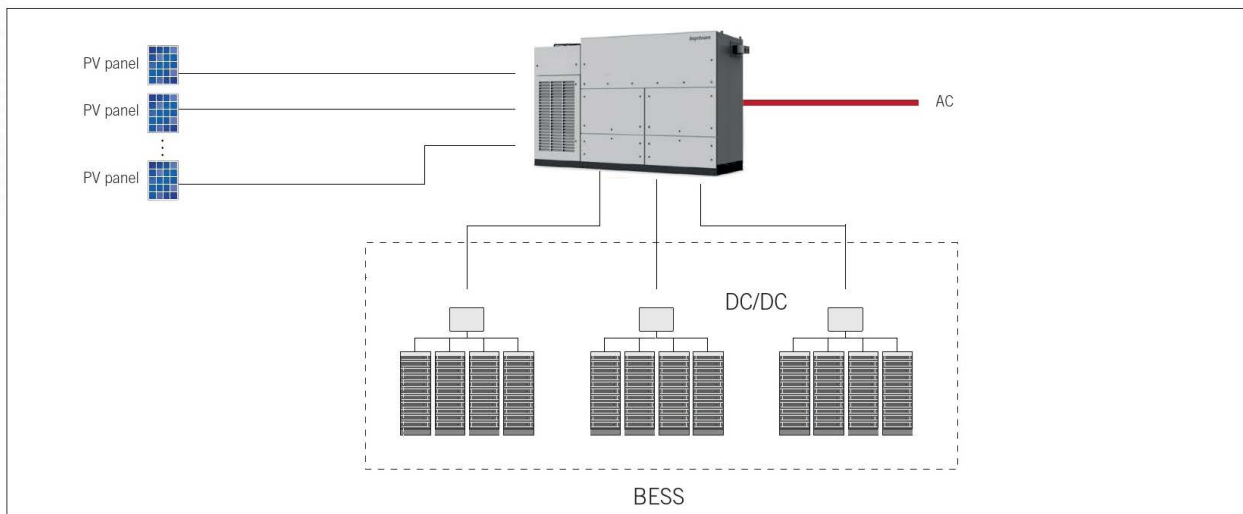
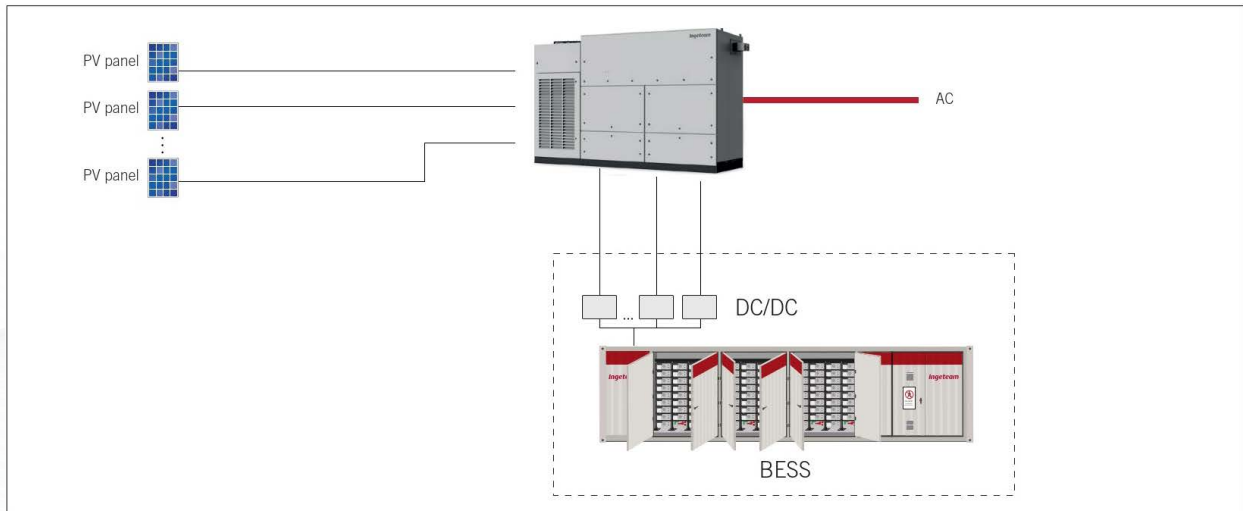
- Type I+II surge arresters.
- Battery reverse polarity.
- Manual DC switch.
- Battery fuse.

Size (mm)



*450 considering the disconnecting handle

Solution for DC-coupled solar+storage systems



Specifications included in this datasheet could change without notice. Please contact Ingeteam's sales department in case of any queries.

300002078_B

430 DC-DC BUCK BOOST

RATED POWER

Nominal power @ 1,230 Vdc	432 kW
---------------------------	--------

BATTERY SIDE

Max. DC voltage	1500 V
Operating voltage range	500 -1500 V
Number of inputs	1
Max. DC current per input @35 °C / 50 °C	360 / 310 A
Overvoltage protections	Type I+II surge arresters

DC BUS SIDE

Max. DC voltage	1500 V
Operating voltage range	500 -1500 V
Max. DC current	360 A

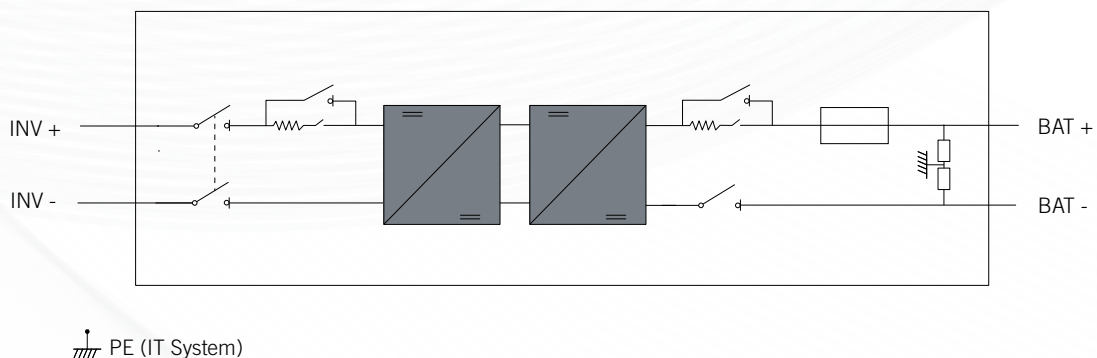
PROTECTIONS

Reverse polarity	Yes
Overheat protection	Yes

GENERAL INFORMATION

Maximum efficiency	99%
Cooling system	Forced ventilation
Air flow	900 m³/h
Stand-by consumption	25 W
Operation temperature	-30 °C to + 60 °C
Relative humidity (non-condensing)	0 - 100%
Protection class	IP66 / NEMA 3R
Residual current monitoring unit	Yes
Maximum operating altitude	4,000 m (for installations beyond 1000 m please contact Ingeteam's solar sales department)
Marking	CE
Compliance	IEC 62109-1; UL1741

Single-line diagram



Specifications included in this datasheet could change without notice. Please contact Ingeteam's sales department in case of any queries.

300002078_B

EUROPE

Ingeteam Power Technology, S.A.
Avda. Ciudad de la Innovación, 13
31621 Sarriguren (Navarra) - Spain
Tel.: +34 948 288 000
Fax: +34 948 288 001
e-mail: solar.energy@ingeteam.com
bess.energy@ingeteam.com

Ingeteam S.A.
Parque Tecnológico de Bizkaia
Edificio 106
48170, Zamudio (Bizkaia) – Spain
Tel.: +34 944 039 710

Ingeteam S.r.l.
Via Emilia Ponente, 232
48014 Castel Bolognese (RA) - Italy
Tel.: +39 0546 651 490
Fax: +39 054 665 5391
e-mail: italia.energy@ingeteam.com

Ingeteam SAS
140 Rue Carmin - Le Naurouze B
31670 Labège - France
Tel.: +33 (0)5 61 25 00 00
Fax: +33 (0)5 61 25 00 11
e-mail: france@ingeteam.com

Ingeteam, a.s.
Technologická 371/1
70800 Ostrava - Pustkovec
Czech Republic
Tel.: +420 597 476 820
Fax: +420 59 732 6899
e-mail: czech@ingeteam.com

Ingeteam GmbH
Grand Bateau – Zollhof 6
D-40221 – Düsseldorf, Germany
Tel.: +49 (0) 211 78177950
e-mail: deutschland@ingeteam.com

Ingeteam Poland Spzoo
Ul. Koszykowa 60/62 m 39
00-673, Warsaw, Poland
Tel.: (+48) 22 821 99 30
e-mail: polska@ingeteam.com

Ingeteam LTD.
1st Floor, Midas House, 62 Goldsworth Road,
Woking, Surrey GU21 6LQ - United Kingdom
Tel.: +44 (0) 141 488 5290

NORTH AMERICA

Ingeteam Inc.
3550 W. Canal St.
Milwaukee, WI 53208 - USA
Tel.: +1 (414) 934 4100 / +1 (855) 821 7190
Fax: +1 (414) 342 0736
e-mail: usa@ingeteam.com

Ingeteam Power Technology S de RL de CV
Av. Ejercito Nacional Mexicano 351, Chapultepec
Morales, Granada, Manuel Hidalgo
CP: 11520
Ciudad de México, México
Tel.: (+52) 55 3000 1200
e-mail: provededores.ipm@ingeteam.com

SOUTH AMERICA

Ingeteam Ltda.
Rua Estácio de Sá, 560
Santa Genebra
Campinas - SP
CEP: 13080-010; São Paulo - Brazil
Tel.: (+55) 19 30 37 37 73
e-mail: brazil@ingeteam.com

Ingeteam Chile SpA
Balmoral n.º 309, Piso 10º, Oficina 1008,
7561282 Las Condes
Santiago, Chile
Tel.: (+56) 229 253 825
e-mail: chile@ingeteam.com

ASIA

Ingeteam Power Technology Shanghai, Co. Ltd.
Room 2606-F, No.360 South Pudong Road
China (Shanghai) pilot free trade zone
C.P 200120
Tel.: +86 139 1622 4886
e-mail: liu.yimin@ingeteam.com

Ingeteam India Pvt. Ltd.
Survey No. 111/1-111/3 & 111/5-111/7,
Village No.155, Mambakkam Village,
Chennai - Bangalore Main Road,
Sriperumbudur Taluk,
Kancheepuram District - 602106,
Tamilnadu, India

Ingeteam Power Technology S.A. UAE Branch
Al Bateen tower c6 Bainunah 1st floor
Street 34
Abu Dhabi - UAE
Tel.: +971 2 207 6666

Ingeteam Power Technology S.A.
Thailand representative office
100/67 Vongvanij B Building, 22nd floor,
Rama IX Road., Huaykwang,
10320 Bangkok
Te.: +66 22461 798
e-mail: Thailand.pga@ingeteam.com

Ingeteam Vietnam CO., LTD
Spaces Building, 28A Tran Hung Dao Street,
Phan Chu Trinh Ward Hoan Kiem District,
Hanoi City, Vietnam

AUSTRALIA

Ingeteam Australia Pty Ltd.
Iaccelerate Centre, Building 239
Innovation Campus, Squires Way
North Wollongong, NSW 2500 - Australia
Tel.: +61 429 111 190
e-mail: australia@ingeteam.com

Ingeteam

www.ingeteam.com