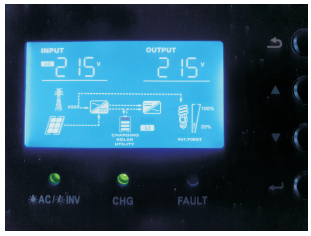
Off-Grid Solar inverter 3-5kW 1 or 3 phase

3kW and 5kW Inverter



Data display

DC/AC and Communication ports

Solar Inverter Model	US-3kW	US-4kW	US-5kW
battery voltage	24/48V DC	48V DC	48V DC
Inverter rated/peak power	3/6kW	4/8kW	5/10kW
nominal voltage	220/230VAC	220/230VAC	220/230VAC
house net	1 phase	1/2/3 phase	1/2/3 phase
parallel operation	no	Up to 6 devices 24kW	Up to 6 devices 30kW
mains charging	20A@24V, 15A@48V	60A	60A
max solar connection power	1.5kW@24V 1.8kW@48V	4.5kW	4.5kW
max voltage solar in (Uo)	102V@24V, 145@48V	145V	145V
max solar charge current	50A@24V, 30A@48V	80A	80A
battery types	AGM, flooded, lithium	AGM, flooded , lithium	AGM, flooded, lithium
network transfer switch	yes, 10ms	yes, 10ms	yes, 10ms
dimension	385x280x130mm	455x295x130mm	455x295x130mm
weight	7.5kg	11	11.5kg

These modern solar inverters feed the house consumers completely independently of the public grid from the connected AGM, flooded Lead or lithium battery.

The batteries are charged from the solar field by MPPT inverter or mains or generator power if available. Various combinations can be configured. Depending on the requirements, the mains can be routed to the consumers either via the AC transfer switch or battery charger.

The 4kW/5kW (48V) devices can also be configured in parallel mode with several inverters (Max 6 units, 30kW). The IBS lithium batteries LiIonMS160/25.6V or LiIonMS90/52.2V can be combined. This results in up to 23.5kWh of available energy.

The IBS lithium batteries communicate with the inverters via the RS485 interface of the battery (BMS). All system data can be viewed via the data logger and data app.

Changes to specifications possible without prior notice.

IBS Lithium Battery

Distributor:

US3-5kW_e_1a.cdr

Solar Inverter

www.ibs-tech.ch