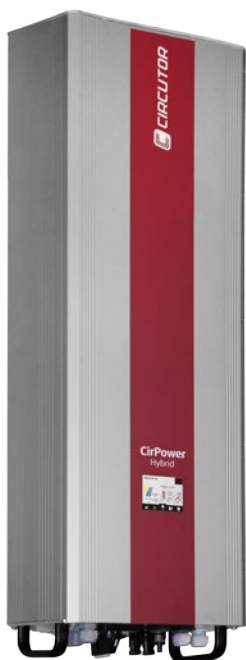


# CirPower Hybrid

Multi-management hybrid solar inverter

*The most complete solar inverter*



# Applications



Systems in rural areas



Systems in principal and secondary residences












Systems in buildings or industries



Off-grid systems

## *The most complete solar inverter*

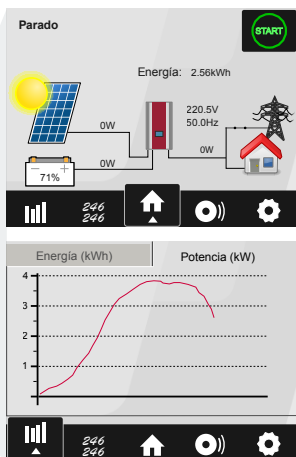
The **CirPower Hybrid** are hybrid inverters for self-consumption photovoltaic energy system. They are able to manage the charging and discharging process in batteries, in order to provide necessary power to the loads combining power from batteries and from PV modules.

-  › Certificate for on-grid or off-grid systems.
-  › Extends the life of lead or lithium ion batteries.
-  › Able to manage the charging of batteries from the solar source and electrical grid.
-  › **UPS** function to ensure power supply in case of blackout in the grid.
-  › The **most flexible** solar inverter in the market.
-  › The most technologically advanced solar inverter: grid disconnection and reconnection technology patent.
-  › The most silent hybrid inverter < **30 dB**.
-  › Highly waterproof inverter (**IP 55** degree) ideal for both indoor and outdoor applications.
-  › Data logging for **more than 5 years**.








# CirPower Hybrid

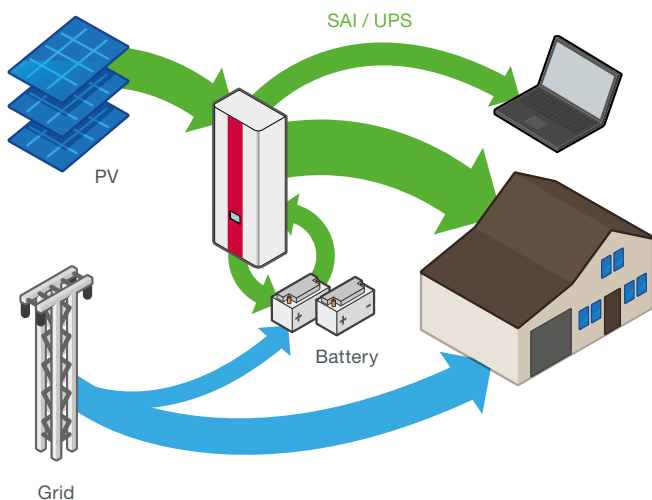
Multi-management hybrid solar inverter



## 5 MODES OF OPERATION

-  › **Self-consumption mode:** ensures  $\emptyset$  (or controlled) power injection into the grid.
-  › **Peak-shaving mode:** limits the power demanded from the electrical grid.
-  › **Island mode:** combines photovoltaic panels and batteries to provide electric supply.
-  › **Backup mode:** works as an UPS prioritising battery charging.
-  › **Automatic mode:** takes full advantage of solar generation and injects power excess into the grid. In case there is a power failure, the inverter automatically changes to isolated mode.

## Drive your energy



### *The all-in-one hybrid inverter*



- › Decide how you want to use **your energy**.
- › Reduce **your dependence** on the electrical grid.
- › **Check** the information from your web browser.
- › **Supervise** comfortably and intuitively thanks to its 3.5" colour touch screen.
- › The solar inverter **informs** you without contracting additional Internet services or maintenance payments.

## Technical features

<b>DC input</b>	Max. DC power ( $\cos \varphi = 1$ )	4250 W
	Maximum voltage $V_{dc}$	550 $V_{dc}$
	Minimum voltage	170 $V_{dc}$
	MPPT voltage range	170...500 $V_{dc}$
	Maximum current	20 A
<b>Battery input</b>	Rated voltage	48 V
	Voltage range	36...60 V
	Maximum current	Charge/Discharge: 80/50 A
<b>AC output (grid)</b>	AC power (230 V, 50 Hz, $\cos \varphi = 1$ )	4000 W
	Rated voltage - Frequency	230 V - 50/60 Hz
	AC Voltage Range *	180...270 V
	Frequency Range *	55...65 Hz
<b>AC output (UPS output)</b>	AC power (230 V, 50 Hz, $\cos \varphi = 1$ )	4000 W
	Rated voltage - Frequency	230 V - 50/60 Hz
	AC Voltage Range *	180...270 V
	Frequency Range *	55...65 Hz
<b>Communications</b>	Ethernet	Web server, Modbus/TCP for Control and monitoring
	RS-485	Modbus protocol
	CAN 2.0	BMS control
<b>Mechanical features</b>	Dimensions	300 x 950 x 200 mm
	Weight	50 kg
	Protection Degree	IP 55
<b>Standards</b>	<b>EN 62109-1, EN 62109-2, IEC 62116, IEC 61000-6-2, IEC 61000-6-3, VDE 0126-1-1, VDE AR-N4105, CEI 0-21, RD 1699:2011</b>	

\* Maximum power (AC grid + AC UPS) is 4000 W.

## References

Type	Code	Description
<b>CirPower Hybrid</b>	<b>E15311</b>	Multi-management hybrid solar inverter

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