BLACK START

TECHNICAL DATA

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The EC POWER Black Start system creates a dependable on-site energy system by combining the efficient XRGI® Combined Heat and Power (CHP) system with an advanced battery storage solution.

The Black Start system delivers optimal electricity and heat during daily operation, with the battery storing surplus electricity. During grid interruptions the Black Start system instantly and automatically provides power, ensuring that your critical systems continue to operate without failure.

This layered security offers ultimate resilience, protecting your home or business from grid failure and guaranteeing energy independence.

XRGI® SYSTEM

XRGI® type Please refer to the corresponding datasheet.	XRGI® 6 XRGI® 6 LowNOx XRGI® 9	XRGI® 15 LowNOx XRGI® 20 XRGI® 20 BIOGENIC

Note:
The configurations shown only serve as examples. Actual system layouts may vary depending on requirements and selected components.

BLACK START SYSTEM

Black Start System size	kW	8	15	50	100
Capacity	kWh	15-50		75	
Output, max.	kW	8,1	8,1/15	50	100
Efficiency, max.	%	97,6		98,2	
AC input/output nominal power	kVA	17,6/8,8	33/16,5	100/55	200/110
Output current (grid), max.	A	13,3	25	83,3	166,7
Output current (backup), max.	A	23,2	43,4	90,9	181,8

INVERTER

Dimensions	W x D x H (mm)	475 x 240 x 698	820 x 510 x1350	
Weight	kg	43	153	160
Cooling		Air cooling		
Altitude	m	≤ 3000	≤ 4000	
Protection class		IP 66		
Operating temperature	°C	–30 to +60		

BATTERY

Dimensions	W x D x H (mm)	650 x 350 x 445-1425	570 x 660 x 1560 (per rack)	
Weight	kg	137-458	≤ 800	
Cooling		Air cooling		
Altitude	m	≤ 2000		
Charge/discharge power, nominal*	kW	8,1	56,7	113,5
Charge/discharge current, nominal*	A	160	N/A	
Charge/discharge current, max.*	A	180	83,3	167
Voltage, nominal*	V	51,2	768	
Operating voltage*	V	48-57,6	696-864	
Protection class		IP20		
Operating temperature	°C	0-50	–10 to +50	

*Battery direct current (DC)

BLACK START BOX

Dimensions	W x D x H (mm)	400 x 210 x 400
Weight	kg	10
Communication port		RS485/Modbus RTU