



BLACK START

TECHNICAL DATA



WWW.ECPower.DE

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 x 1350	
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	