



NRG PROJECT  
**ENERGY STORAGE  
SYSTEM**

MADE IN POLAND



MODEL	NRG50K138	NRG100K138	NRG100K276	NRG250K552	NRG500K828
Rated AC Output Power [kW]	50 kW	100 kW	100 kW	250 kW	500 kW
Capacity [kWh]	138 kWh	138 kWh	276 kWh	552 kWh	828 kWh
<b>Battery Side [DC]</b>					
Max. DC Current	150A	186A	228A	566A	1125A
Max. C-Rate Charge/Discharge	0.5C/1C	0.5C/1C	0.5C/1C	0.5C/1C	0.5C/1C
DC Battery Voltage Range	561V - 788V				
Cells	LFP 100 Ah	LFP 100 Ah	LFP 100 Ah	LFP 100 Ah	LFP 100 Ah
Max. C-Rate Charge/Discharge	0.5C/1C	0.5C/1C	0.5C/1C	0.5C/1C	0.5C/1C
Auto buffering function	Yes				
<b>Load Side [AC]</b>					
Max. AC output power	55 kVA	110 kVA	110 kVA	275 kVA	550 kVA
Off-Grid	Optional	Optional	Optional	Optional	Optional
Nominal Rated Output AC Voltage	400 V [3P4W]				
Adjustable power factor	>0.99 (at rated power)/1 (leading)~1 (lagging)				
THDi	<3% (at rated power)				
Output voltage range	-15%~10% (settable)				
Isolation transformer	Yes	Yes	Yes	Yes	Yes
Overloading capability	110% (1min)				
<b>General Information</b>					
Cooling type	Intelligent forced air cooling				
Relative humidity	0~95% (no condensation)				
Altitude	5000m (>3000m derating)				
Dimensions*	10 ft	10 ft	10 ft	20 ft	20 ft
Ingress Ratings	IP65 (Main Enclosure) IP20 (Battery Rack)				
Weight	3000 kg	3100 kg	4000 kg	6000 kg	9000 kg
Operating Conditions	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Noise emission	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m
Round-Trip System Efficiency	93%				
Grid Frequency Range	50 Hz				
Operating Ambient Temperature	-30°C to +50°C				
System Compliant to Grid Codes and Standards	GB/T 34120-2017, IEC62477-1, DIN EN 62477-1:2012/A1:2017, EN61000-6-2:2005, EN61000-6-4:2007/A1:2011, VDE-AR-N4110:2018-11, NCRfG				

\*Battery Rack 138 kWh: width - 1205mm depth - 655mm height - 2060mm

## COMMUNICATIONS & MONITORING

Communications	Modbus TCP / DNP3 / RS485
Monitoring	EMS NRG PFC200 WAGO Online

OPTIONAL ESS Power & Capacities

Power/ Capacity	92 kWh	138 kWh	276 kWh	414 kWh	552 kWh	690 kWh	828 kWh	1104 kWh	2064 kWh	3 MWh	8 MWh	12 MWh	16 MWh
30 kW													
50 kW													
100 kW													
250 kW													
500 kW													
1250 kW													
1500 kW													
1750 kW													
4000 kW													
4600 kW													

Custom power and capacity with and paid engineering works, contact: [biuro@nrgproject.pl](mailto:biuro@nrgproject.pl)

OPERATING CONDITIONS

OUTDOOR (O) /INDOOR (I)

Power/ Capacity	92 kWh	138 kWh	276 kWh	414 kWh	552 kWh	690 kWh	828 kWh	1104 kWh	2064 kWh	3 MWh	8 MWh	12 MWh	16 MWh
30 kW	I/O												
50 kW	I/O	I/O	I/O	I/O	I/O								
100 kW		I/O	I/O	I/O	I/O	I/O	I/O						
250 kW			I/O	I/O	I/O	I/O	I/O	I/O					
500 kW					I/O	I/O	I/O	I/O					
1250 kW									O	O	O	O	O
1500 kW									O	O	O	O	O
1750 kW									O	O	O	O	O
4000 kW									O	O	O	O	O
4600 kW									O	O	O	O	O

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# ENERGY STORAGE

## ESS with EMS

- ✓ Resiliency and Backup
- ✓ Renewable Integration
- ✓ Energy Arbitrage
- ✓ Peak Shaving
- ✓ Grid Stabilization

find out more at  
[www.nrgproject.pl](http://www.nrgproject.pl)