



TECHNICAL INFORMATION

RESIDENTIAL ENERGY STORAGE SYSTEM
Rack Storage Series

INDUSTRIAL ENERGY STORAGE SYSTEM

LITHIUM-ION RECHARGEABLE
BATTERY CELL

RESS 18650 | RESIDENTIAL ENERGY STORAGE SYSTEM

TECHNICAL INFORMATION – RACK STORAGE SERIES		
Chemistry	Lithium-Ion, NMC	
Scalability	6 - 12 Battery modules	
Models	RESS-10/9/299/6NR	RESS-20/19/598/12NR
Battery modules	6 pcs	12 pcs
Usable energy	9.8 kWh	19.7 kWh
Usable capacity	37.1 Ah	37.1 Ah
Nominal voltage	266.4 V	532.8 V
Cut off voltage	216.0 V	432.0 V
Charge voltage	298.8 V	597.6 V
Charge / discharge current	34.8 A	34.8 A
Charge / discharge power	9.2 kW	18.5 kW
Weight	263 kg	440 kg
Operating temperature	0 °C – 50 °C	
Max. installation height above MSL	2000 m	
Storage temperature	-20 °C – 55 °C (≤ 30 days) -20 °C – 45 °C (> 30 ≤ 90 days) -20 °C – 25 °C (> 90 ≤ 365 days)	
Humidity	0 – 85 % (non-condensing)	
Recycling	Free return of batteries in Germany	
Lifetime	Refurbishment of batteries after EoL	
Compatible inverters, pending	GoodWe Hybrid HV GW10K-ET GoodWe HV GW10K-BT	
Communication	CAN, Modbus TCP	
Power / communication connector	Plugable	
Protection class	IP 54, NEMA 3/3R	
Cooling system	Natural convection	
Measurements	823 x 1225 x 510 mm ³	
Certification system, pending	CE, UN38.3, VDE-AR-E 2510-50, BattG 2006/66/EG, IEC 62619, IEC 61000-6-2/4	
Certification cell	UN38.3, IEC 62619, IEC 62133	

RESS 21700 | RESIDENTIAL ENERGY STORAGE SYSTEM

TECHNICAL INFORMATION – RACK STORAGE SERIES		
Chemistry	Lithium-Ion, NMC	
Scalability	6 - 12 Battery modules	
Models	RESS-12/12/299/6NR	RESS-25/23/598/12NR
Battery modules	6 pcs	12 pcs
Usable energy	12.4 kWh	24.9 kWh
Usable capacity	48.0 Ah	48.0 Ah
Nominal voltage	259.2 V	518.4 V
Cut off voltage	216.0 V	432.0 V
Charge voltage	298.8 V	597.6 V
Charge / discharge current	45.0 A	45.0 A
Charge / discharge power	11.6 kW	23.3 kW
Weight	270 kg	450 kg
Operating temperature	0 °C – 50 °C	
Max. installation height above MSL	2000 m	
Storage temperature	-20 °C – 55 °C (≤ 30 days) -20 °C – 45 °C (> 30 ≤ 90 days) -20 °C – 25 °C (> 90 ≤ 365 days)	
Humidity	0 – 85 % (non-condensing)	
Recycling	Free return of batteries in Germany	
Guarantee	10 years capacity guarantee	
Lifetime	Refurbishment of batteries after EoL	
Compatible inverters, pending	GoodWe Hybrid HV GW10K-ET GoodWe HV GW10K-BT	
Communication	CAN, Modbus TCP	
Power / communication connector	Plugable	
Protection class	IP 54, NEMA 3/3R	
Cooling system	Natural convection	
Measurements	823 x 1225 x 510 mm ³	
Certification pending	CE, UN38.3, VDE-AR-E 2510-50, BattG 2006/66/EG, IEC 62619, IEC 61000-6-2/4	
Certification cell	UN38.3, IEC 62619, IEC 62133	



E-Stream GmbH & Co. KGaA

Am Ringofen 26
41189 Mönchengladbach
Germany

