



TECHNICAL INFORMATION

RESIDENTIAL ENERGY STORAGE SYSTEM
Rack Storage Series

INDUSTRIAL ENERGY STORAGE SYSTEM

LITHIUM-ION RECHARGEABLE
BATTERY CELL

IESS 18650 | INDUSTRIAL ENERGY STORAGE SYSTEM

TECHNICAL INFORMATION – IESS-101/90/996/20A-V1.0	
Model	IESS-101/90/996/20A-V1.0
Chemistry	Lithium-Ion, NMC
Battery modules	20 pcs
Usable energy	101.0 kWh
Usable capacity	113.7 Ah
Nominal voltage	888.0 V
Cut off voltage	720.0 V
Charge voltage	996.0 V
Charge / discharge power	90.0 kW
Charge / discharge current	101.4 A
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	KACO new energy REFU Elektronik WSTECH
Communication	CAN, Modbus TCP
Power / communication connector	Plugable
Protection class	IP 54, NEMA 3/3R
Cooling system	Air cooling
Measurements	608 x 808 x 2531 mm ³
Footprint	0.50 m ²
Weight	1260 kg
Certification system, pending	CE, UN38.3, IEC 62619, IEC 61000-6-2/4, BattG 2006/66/EG
Certification cell	UN38.3, IEC 62619, IEC 62133

IESS 21700 | INDUSTRIAL ENERGY STORAGE SYSTEM

TECHNICAL INFORMATION – IESS-135/90/996/20A-V1.0	
Model	IESS-135/90/996/20A-V1.0
Chemistry	Lithium-Ion, NMC
Battery modules	20 pcs
Usable energy	134.8 kWh
Usable capacity	156.0 Ah
Nominal voltage	864.0 V
Cut off voltage	720.0 V
Charge voltage	996.0 V
Charge / discharge power	150.0 kW
Charge / discharge current	173.6 A
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	KACO new energy REFU Elektronik WSTECH
Communication	CAN, Modbus TCP
Power / communication connector	Plugable
Protection class	IP 54, NEMA 3/3R
Cooling system	Air cooling
Measurements	608 x 808 x 2531 mm ³
Footprint	0.50 m ²
Weight	1400 kg
Certification system, pending	CE, UN38.3, IEC 62619, IEC 61000-6-2/4, BattG 2006/66/EG
Certification cell	UN38.3, IEC 62619, IEC 62133



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