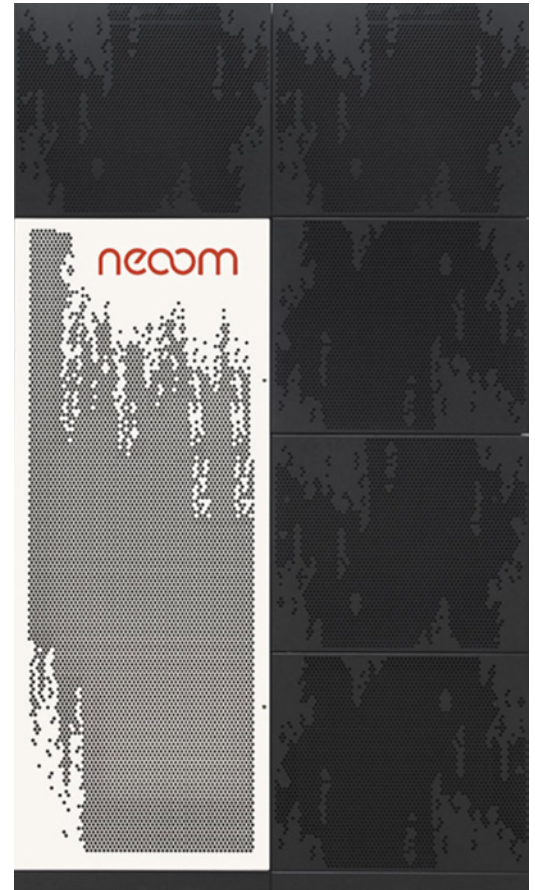


KJUUBE HYBRID

Home Storage EPS

Emergency Power Supply

6kW / 8kW / 10kW



SCOPE OF DELIVERY

- Connection cable
- Cabinet key
- Installation manual

MAIN AC-CONNECTION

Grid connection	for feeder line min. 5 × 4 mm ² max. 5 × 10 mm ²
Nominal voltage	230/400 V
Nominal current	32 A
Nominal frequency	50/60 Hz
Prefuse	recommended 40 A max. 64 A (required onsite, recommended c-characteristic)
Connection terminals	lead-through terminal WGK16

CHARGE / DISCHARGE POWER

Charge power	max. 10 kW
Discharge power	max. 10 kW
Output voltage	230/400 V
Charging current	nominally 15 A, max. 16 A
Discharge current	nominally 15 A, max. 16A
MPP tracker	2
Input power PV	5, 6, 8 and 10 kW
Voltage range (MPP)	230-800 V (5kW), 280-800 V (6kW), 370-800 V (8kW), 330- 800 V (10kW)
Type of mains / mains frequency	three-phase system, 50/60 Hz
Parallel Option	AC up to 5 EPS up to 5
Efficiency	up to 97,8%
Topology	transformerless

PROTECTION

Grid connection	prefuse
DC fault protection	DC fuse, DC power relays
Protection measures	overload, over voltage, over current, under voltage
Energy meter	EM340 MID-conformity

CHARGE CONTROL | MONITORING

Touchpanel	10"
Communication	LAN, WLAN
Communication protocol	Modbus TCP
Functional state	graphical display, app
Physical interface	Ethernet

STANDARDS

VDE-AR-E 2510-2, VDE-AR-E 2510-50, VDE-AR-N 4105

OPERATING CONDITIONS

Ambient temperature warehousing/transport	-20 to 60°C
Ambient temperature operation	recomm. 10 to 30°C, max. 5 to 45°C
Relative humidity	0 to 92%, non-condensing
Protection class	I
Overvoltage category	II
Cooling	natural ventilation opt. with cooling
Noise emission	< 61 dB
Cabinet protection rating	IP20

MASTER KJUUBE (MAK)

Cabinet type	floor mounted
Mounting	mounting with screws and nuts or screws and dowels on the wall
Cabinet color	RAL 9016
Material	powder coated sheet metal
Safety	lock
Dimensions (w × h × d)	561 mm × 1440 mm × 350 mm
Weight power unit (LT)	100 kg
battery cabinet (min. 2/LT)	63 kg (min. 4,8 kWh) or 79 kg (min. 7,1 kWh)
Scalable Battery KJUUBE's	max. 2 parallel 9 piece Module serial (31,95 or 63,9 kWh)
Scalable Battery Module	min. 4 serial, max 9 serial min. 9,6 kWh, max 31,95 kWh

BATTERY KJUUBE (BAK)

Cellular chemistry	LFP
Nominal capacity	4,8 kWh or 7,1 kWh
Usable capacity	4,32 kWh or 6,39 kWh
Material	powder coated sheet metal
Dimensions (w × h × d)	561 mm × 480 mm × 350 mm
Battery cabinet (min. 2/MAK)	63 kg (min. 4,8 kWh) or 79 kg (min. 7,1 kWh)
Warranty inverter	10 years
Warranty	2 years, 10 years manufacturer warranty for battery modules*

* The manufacturer warranty of 10 years is available in Austria, Germany and on selected markets.

PV INPUT	6 KW	8 KW	10 KW
Max. recommended DC-Leistung/MPP (W)	4000/4000	6000/4000	8000/5000
Max. DC-voltage (V)		1000	
MPPT-voltage range (V)		180-950	
Start-up voltage (V)		160	
MPPT-operating voltage full load(V)	280-800	270-800	330-800
DC- nominal voltage (V)		720	
Max. input current (A)	11/11	20/11	20/11
Max. short circuit current (A)	14/14	23/14	23/14
DC overcurrent protection (A)		30/30	
Backfeed current to PV- array		0	
Number of MPP Tracker		2	
Strings per MPP Tracker	1/1	2/1	2/1

AC-INPUT / OUTPUT	6 KW	8 KW	10 KW
Nominal AC power to grid(VA)	6000	8000	10000
Max. power to the grid (VA)	5000	8000	10000
Max. power from the Grid(VA)	6000	8000	10000
Nominal output Voltage		400/380, 3L/N/PE	
Nominal frequency (Hz)		50/60	
AC nominal output current to the grid (A) Nom/Max	8,7/9,6	11,6/12,8	14,5/16
AC nominal input current from the grid (A) Nom/Max	8,7/9,6	11,6/12,8	14,5/16
Shorttime output current max. (peak/continuous)		220A / 5us	
Max. output RMS overcurrent protection	40	40	40
AC backfeed@Standby mode (A)		0	
Displacement power factor		1(adjustable 0,8 leading to 0,8 lagging)	
Total harmonic distortion THDI (@Nominal output)		<3%	

INTERNAL CHARGER	6 KW	8 KW	10 KW
Batterie type		Li-Ion	
Battery voltage range (V)		160-800	
Max.charge current (A)		25	
Max. discharge current (A)		25	
Charging strategy Li-Ion Batterie		Self optimized to BMS	

AC - OUTPUT EPS	6 KW	8 KW	10 KW
Max. output power (VA)	6000	8000	10000
Peak output Power (VA/continuous) Only if PV/battery are big enough	12000/60sek	14000/60sec	15000/60sec
Max. Output current (A)	8,7	11,6	14,5
Nominal output voltage (V)		400/280	
Nominal frequency (Hz)		50/60	
Switch time EPS (Dauer)		< 500ms	
Peak output current (peak/time)		50A/2us	
Max Output RMS overcurrent protection (A)	48	48	48
Total harmonic distortion THDv (@Linear Load)		<2%	
Optional EPS (Emergency Power Supply)	EPS Switch Box necessary, Art.Nr.: KJ-NOT1.1-15		