

Battery energy storage system

SENEC.Home E4 – 3ph 8

Technical data sheet



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SENEC.Home E4 – 3ph 8 E4HT08-XXXXXXXX-XXX-XX Germany 1.0 17/Jun/2024 TD220-097.10_en-DEU



Model number:	E4HT08-02			
General technical data				
Product type	Hybrid / AC			
Dimensions ($H \times W \times D$)	1,340 mm × 800 mm × 160 mm			
Total weight (incl. 2 battery modules)	177 kg			
SENEC.Cloud-capable	Yes			
Backup power mode-capable [01]	Yes			
Communication interfaces ^[02]	End customer: Ethernet Installer: SG ready RS-485 6× Digital Input ModbusTCP			
User interfaces ^[02]	End customer: SENEC.App LED indicator Installer: SENEC.Cockpit mein-senec.de			
Automatic security updates	Yes			
Automatic feature optimisation and expansion	Yes			
Control of external PV inverters	Yes			
Ingress protection	IP65			
Protection class	I. I			
Permissible ambient temperature	Optimal operation: +15 °C to +35 °C Limited operation: -20 °C to +15 °C and +35 °C to +45 °C			
Permissible ambient temperature (without battery charging/discharging function)	-20 °C to +55 °C			
Relative humidity	4 % to 100 % (condensing)			
Installation requirement (indoor)	Upright on surface with sufficient load-bearing capacity and additional wall-mounting			
Installation requirement (outdoor)	Upright on surface with sufficient load-bearing capacity and additional wall-mounting Adequate roofing against direct solar radiation and precipitation			
Cooling concept	Active cooling (via fan)			
AC performance data				
Voltage U _{AC/backup, nom}	3× 220 V to 240 V			
Frequency f _{AC/Backup, nom}	50 Hz			
Max. current I _{AC, rated}	13.3 A			
Max. apparent power S _{AC, max/rated}	8.8 / 8.0 kVA			
Power factor cos φ	0.8 ind to 0.8 kap (adjustable as needed)			
Max. active power P _{AC, max/ rated}	8 kW			
Max. hybrid power S _{Hybrid, max}	13.1 kW			
Max. backup power P _{Backup, max}	8 kW			
Battery module				
Battery technology	Lithium iron phosphate (LFP)			
Battery topology	High-voltage module, connected in series			
Weight per battery module	55 kg			
Number of battery modules	2			
Max. usable storage capacity E _{BAT.use} ^[03]	9.2 kWh (4.6 kWh per battery module)			
Max. charging and discharging power _{BAT, max}	5.12 kW (2.56 kW per battery module)			



Model number:	E4HT08-02					
Battery module safe	ty					
Deep discharge prote	ction		Yes (only during active operation)			
Power regulation			tomatic power derating outside of the optimal perating temperatures until safety shutdown			
PV performance date	a ^[05]					
MPPT voltage range l	J _{pv, mppt}		180 V to 950 V			
PV starting voltage			200 V			
Max. PV input voltage	U _{PV, max}		1,000 V			
Number of MPPT inp	uts		2 (MPPT 1 and 2)			
Max. PV input current I _{PV, max} (MPPT 1 and 2)			26 A (MPPT 1) 16 A (MPPT 2)			
Max. PV short-circuit		30 A (MPPT 1) 20 A (MPPT 2)				
Inverter topology		Transformerless (non-isolated)				
Warranty & monitori	ing					
Warranty		10 years manufacturer's warranty				
Monitoring		Free	Free of charge using the SENEC.App for Android/iOS			
Remote maintenance			Automatic software updates & diagnosis			
Functions						
Energy management	system		SENEC.PowerPilot			
Black start-capable ^{[0})4]		Yes			
Backup power function			SENEC.Backup (add-on required) [01]			
Battery module with integrated heating function			Yes			
Directive & standard	ds					
CE marking & EU compliance	Low Voltage Directive 2014/35/EU:	EN 621	09-1:2010 09-2:2011 77-1:2022	EN IEC 62040-1:2017 IEC 60529:1989/AMD2:2013/ COR1:2019		
	EMC Directive 2014/30/EU:	EN IEC 61000-6-1:2016 EN IEC 61000-6-3:2020				
	RoHS Directive 2011/65/EU:	EN IEC 63000:2018				
VDE Application Rule		VDE-AR- E 2510-2:2021 VDE-AR- E 2510-50:2017 VDE-AR-N 4105:2018		VDE FNN Guideline "Connection and operation of energy storage units on the low-voltage network" (2024)		
Battery safety		IEC 62619:2022 UN 38.3		EN ISO 13849-1:2023		
 [01] Optional backup power mode is only available in combination with the SENEC.Backup add-on. Extra costs for additional materials and installation may apply. [02] Communication is realised via the intelligent interface SENEC.PowerBase (contained in the scope of delivery of the SENEC.Home E4). 		The SENEC.Home E4 – 3ph 8 is a smart, connected product. In order to use the product, you need a permanent internet connection and registration at mein-senec.de, including the creation of a SENEC user account.				
lcontained in the scop The use of the commu	hase of add-ons	The corresponding terms and conditions of service apply to the use of the online service mein-senec.de. These can be down-				

The use of the communication interfaces depends on the purchase of add-ons such as SENEC.Backup and SENEC.Mobility.

- [03] Depends on the charging and discharging conditions, such as the temperature and frequency of use.
- [04] Only available for hybrid product type.

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