

Household Single Phase Hybrid All In One ESS

CE-1P3/3.6/4/4.6/5/6/8KEG-HE-EU



Product Features

- 80-500V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 18A PV input current
- 100% full load charge and discharge
- WiFi and Bluetooth connection
- IP66 protection degree
- 21A/25A charging and discharging current, suitable for middle voltage and high voltage batteries

Technical Data							
Model	CE-1P3KEG-HE-EU	CE-1P3.6KEG-HE-EU	CE-1P4KEG-HE-EU	CE-1P4.6KEG-HE-EU	CE-1P5KEG-HE-EU	CE-1P6KEG-HE-EU	CE-1P8KEG-HE-EU
Inverter Data							
Battery Type				Li-ion			
Battery Voltage Range (Vdc)				80-500			
Max. Charging/discharging Current (A)				25/25			
Rated Charging/discharging Current (A)				21/21			
Recommended Max. PV Power (kWp)	6	7.2	8	9.2	10	12	16
Max. Input Voltage (V)				600			
MPPT Voltage Range (V)				80~580			
MPPT Number				2			
Strings Number per MPPT				1/2			
Max. MPPT Input Current (A)				36			
Max. MPPT Short Circuit Current (A)				44			
Rated Output Power (kW)	3	3.6	4	4.6	5	6	8
Max. Apparent Output Power (kVA)	3	3.6	4	4.6	5	6	8
Max. Output Current (A)	13.0	15.7	17.4	20	21.7	26.1	34.8
Rated Grid Voltage/range (V)	220/230/240/180~300						
Back-Up Switch Time (ms)	<10						
Rated Frequency (Hz)	50/60						
Max. Efficiency	98.60%						
EU Efficiency	98.10%						
Topology	Transformerless						
Dimensions (mm)	630×450×178						
Weight (kg)	25.5			25			
General Data							
Shell Material				Aluminium alloy			
Operating Ambient Temperature Range (°C)				-25~60			
Protection Degree				IP66			
Cooling Concept	Natural convection			Smart fan			
Max. Operation Altitude (m)				3,000			
Grid Connection Standard	AS/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 16150, VDE-AR-N 4105, CEIO-21, CEIO-16, RDI699, NA/EEA, C10:2019, PPDS:2021, Tor+R25, IEC61683, IEC61727&62161						
Safety/EMC Standard	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004						
Communications	WiFi, 4G, GPRS, Bluetooth, RS485, CAN						
Battery Data							
Model (kWh)				4.03			
Battery Type				LFP			
Nominal Voltage/Range (V)				96/80-108			
Capacity (Ah)				42			
Depth of discharge(DoD)				95%			
Dimension (mm)				630W×630H×178D			
Weight (kg)				53			
System Parameter	H4		H8		H12	H16	H20
Qty. of Batteries	1		2		3	4	5
Charge/Discharge Temperature Range	Charge: 0°C to 53°C/Discharge: -10°C to 53°C						
Cycle Life				6,000			
Nominal voltage (V)	96		192		288	384	480
Battery Total Energy (kWh)	4.03		8.06		12.09	16.12	20.15
Dimension (mm)	630W×1,080H×178D		630W×1,450H×178D		630W×1,820H×178D	630W×2,190H×178D	630W×2,560H×178D
Weight (kg)	83		122		161	200	238