

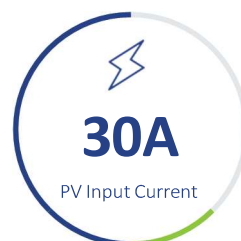


C&I Series Hybrid Inverter

25-50KW Hybrid Inverter

| Commercial | Three Phase | HV Battery | 4 MPPTs |

SMART ENERGY
SUSTAINABLE SOLUTIONS „



Talented

- 98.8% max. efficiency
- 135-750V super wide battery voltage range
- Max. 100A charge/discharge current
- Max. 30A PV input current
- Within 20ms UPS-level switching

Reliable

- IP65 protection degree
- Compact and elegant appearance with advanced structure design
- Long-term efficient operation with advanced heat dissipation design
- Outstanding working performance thanks to HANCHU platform

Powerful

- Up to 100% unbalanced load
- Up to 110% AC output overloading
- Max. 120% back-up output overloading @60s
- Parallel operation capacity support system size from KW to MW level

Friendly

- Convenient installation and O&M with horizontal design and quick plug terminals
- Easy data check via both OLED display and App
- Intelligent energy management with HANCHU built-in EMS

C&I Series Hybrid Inverter

Type Designation	CESS-HY-25K	CESS-HY-30K	CESS-HY-36K	CESS-HY-40K	CESS-HY-50K
PV Input					
Max. Input Power (kW)	37.5	40.5	54.0	60.0	75.0
Start-up Voltage (V)	135				
Max. DC Input Voltage (V)*	1000				
Rated DC Input Voltage (V)	620				
MPPT Voltage Range (V)*	200-850*				
No. of MPP Trackers	4				
No. of DC Inputs per MPPT	2				
Max. Input Current (A)	30×4				
Max. Short-circuit Current (A)	40×4				
Battery Side					
Battery Type	Lithium Battery (with BMS)				
Battery Voltage Range (V)	135-750				
Max. Charge/Discharge Current (A)	100/100				
Grid Side					
Rated Output Power (kW)	25.0	30.0	36.0	40.0	50.0
Max. Output Apparent Power (kVA)	27.0	33.0/30.0 ¹⁾	39.6	44.0	55.0
Max. Input Apparent Power (kVA)**	30.0	36.0	43.5	48.0	60.0
Max. Charging Power of Battery (kW)	25.0	30.0	36.0	40.0	50.0
Rated AC Voltage (V)	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency (Hz)	50/60				
Max. Output Current (A)	42.0	50.0/43.5 ²⁾	60.0	66.0	83.0
Power Factor	0.8 leading ... 0.8 lagging				
Max. Total Harmonic Distortion	<3% @Rated output power				
DCI	<0.5%In				
Back-up Side					
Rated Output Power (kW)	25.0	30.0	36.0	40.0	50.0
Max. Output Apparent Power (kVA)	27.5	33.0	39.6	44.0	55.0
Max. Output Current (A)	42.0	50.0	60.0	66.0	83.0
UPS Switching Time	<20ms				
Rated Output Voltage (V)	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Output Frequency (Hz)	50/60				
Peak Output Apparent Power (kVA)***	30, 60s	36, 60s	43.5, 60s	48, 60s	60, 60s
Voltage Harmonic Distortion	<3% @Linear load				
Efficiency					
Max. Efficiency	98.8%				
European Efficiency	98.3%				
Certifications					
Certifications	IEC/EN 62109, IEC/EN 61000, EN50549-1, TOR Generator Type A, VDE-AR-N-4105				

C&I Series Hybrid Inverter

Type Designation	CESS-HY-25K	CESS-HY-30K	CESS-HY-36K	CESS-HY-40K	CESS-HY-50K
Protection					
DC Reverse Polarity Protection	Integrated				
Battery Input Reverse Connection Protection	Integrated				
Insulation Resistance Protection	Integrated				
Surge Protection	Integrated				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Islanding Protection	Integrated				
AC Over-voltage Protection	Integrated				
Overload Protection	Integrated				
AC Short-circuit Protection	Integrated				
General Data					
Over Voltage Category	PV: II; Main: III				
Dimensions (W×H×D mm)	800×620×300				
Weight (KG)	72.0				
Protection Degree	IP65				
Standby Self-consumption (W)	<15				
Topology	Transformerless				
Operating Temperature Range (°C)	-30~60				
Relative Humidity (%)	0-100				
Operating Altitude (m)	3000 (>3000mderating)				
Cooling	Smart Fan				
Noise Level (dB)	<50				
Display	OLED & LED				
Communication	CAN, RS485,WiFi/LAN (Optional)				

* Max. operating DC voltage is 950V, max. withstanding DC voltage is 1000V

** Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backuploads and charge the battery

*** The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is related to the overload power

1) AS 4777.2: 30.0kVA; 2) AS 4777.2: 43.5A



Product Info