

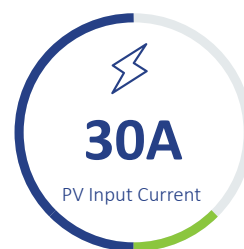


C&I Series Hybrid Inverter

25-50KW Hybrid Inverter

Commercial | Three Phase | HV Battery | 4 MPPTs

SMART ENERGY
SUSTAINABLE SOLUTIONS ”



High-Performance

- 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
- Easy Wifi configuration via App

C&I Series Hybrid Inverter

Model	CESS-HY-25K	CESS-HY-36K	CESS-HY-40K	CESS-HY-50K
PV Input				
Max. Input Power	37.5 kW	54.0 kW	60.0 kW	75.0 kW
Start-up Voltage	135V			
Max. DC Input Voltage*	1000V*			
Rated DC Input Voltage	620V			
MPPT Voltage Range*	200-850V*			
No. of MPP Trackers	4			
No. of DC Inputs per MPPT	2			
Max. Input Current	30A×4			
Max. Short-circuit Current	40A×4			
Battery Side				
Battery Type	Lithium Battery (with BMS)			
Battery Voltage Range	135-750V			
Max. Charge/Discharge Current	100/100A			
Grid Side				
Rated Output Power	25.0 kW	36.0 kW	40.0 kW	50.0 kW
Max. Output Apparent Power	27.5 kVA	39.6 kVA	44.0 kVA	55.0 kVA
Max. Input Apparent Power**	30.0 kVA	43.5 kVA	48.0 kVA	60.0 kVA
Max. Charging Power of Battery	25.0 kW	36.0 kW	40.0 kW	50.0 kW
Rated AC Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated AC Frequency	50 Hz / 60 Hz			
Max. Output Current	42.0 A	60.0 A	66.0 A	83.0 A
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	25.0 kW	36.0 kW	40.0 kW	50.0 kW
Max. Output Apparent Power	27.5 kVA	39.6 kVA	44.0 kVA	55.0 kVA
Max. Output Current	42.0 A	60.0 A	66.0 A	83.0 A
UPS Switching Time	<20ms			
Rated Output Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated Output Frequency	50 Hz / 60 Hz			
Peak Output Apparent Power***	33.75 kVA, 10s	48.6 kVA, 10s	54.0 kVA, 10s	67.5 kVA, 10s
Voltage Harmonic Distortion	<3% @Linear load			
Efficiency				
Max. Efficiency	98.8 %			
European Efficiency	98.3 %			



Product Info



Official Website

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C&I Series Hybrid Inverter

Model	CESS-HY-25K	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				
Number of On-grid Parallel	1~10 Units			
Number of Off-grid Parallel	1~4 Units			
Over Voltage Category	PV: II; Main: III			
Dimensions (W×H×D)	800*620*300mm			
Weight	76.0kg			
Ingress Protection Degree	IP65			
Standby Self-consumption	<15W			
Topology	Transformerless			
Operating Temperature Range	-30~60℃			
Relative Humidity	0-100%			
Operating Altitude	3000m (>3000mderating)			
Cooling	Smart Fan			
Noise Level	<50dB			
Display	OLED & LED			
Communication	CAN, RS485,WiFi/LAN (Optional)			
Certifications	IEC 62109/EN 61000/EN50549-1/NTS/VDE-4105/G99/G100/CEI/NRS097/ CEI 0-21/NEN			
Warranty	12 years			

* Max. operating DC voltage is 850V, 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 backup loads 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

EN202510100301-U



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