

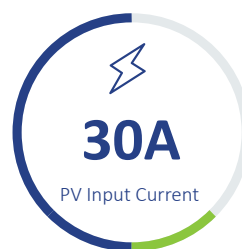


C&I Series Hybrid Inverter

SMART ENERGY
SUSTAINABLE SOLUTIONS „

25-50KW Hybrid Inverter

Commercial | Three Phase | HV Battery | 4 MPPTs



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
- Easy Wifi configuration via App

C&I Series Hybrid Inverter

Type Designation	CESS-HY-25K	CESS-HY-36K	CESS-HY-50K
PV Input			
Max. Input Power	37.5kW	54.0kW	75.0kW
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	30×4A		
Max. Short-circuit Current	40×4A		
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	50.0 kW
Max. Output Apparent Power	27.5kVA	39.6kVA	55.0kVA
Max. Input Apparent Power **	30.0kVA	43.5kVA	60.0kVA
Max. Charging Power of Battery	25.0 kW	36.0 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	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	25.0kW	36.0kW	50.0kW
Max. Output Apparent Power	27.5 kVA	39.6 kVA	55.0 kVA
Max. Output Current	42.0A	60.0 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***	30kVA, 60s	43.5kVA, 60s	60kVA, 60s
Voltage Harmonic Distortion	<3% @Linear load		
Efficiency			
Max. Efficiency	98.8 %		
European Efficiency	98.3 %		



Product Info



Official Website

 info@hanchuess.com
  0510-88865288
  www.hanchuess.com

 No.9 Huicheng Road, Huishan District, 214177 Wuxi, Jiangsu, China

C&I Series Hybrid Inverter

Type Designation	CESS-HY-25K	CESS-HY-36K	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)	800*620*300mm		
Weight	76.0kg		
Ingress Protection Degree	IP65		
Standby Self-consumption	<15W		
Topology	Transformerless		
Operating Temperature Range	-30~60°C		
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	10 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



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