

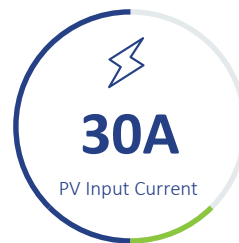


C&I Series Hybird Inverter

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 apperance with advanced structure design
- Long-term efficient operation with advanced heat dissipation design
- Outstanding working performance thanks to Solinteg MORE 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 Solinteg built-in EMS
- Easy Wifi configuration via App

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%				
Compliance					
Compliance	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



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