

CO-EM SERIES

Off Grid Solar Inverter

CO-EM 1.5 / 2.5 / 3.5 / 5.5 / 6.2KW
220V / 230Vac Output



RS232 / RS485



MPPT
60/100/120A



PV 60-500Vdc



No Battery Mode



Lithium Battery
Activation



High Efficiency



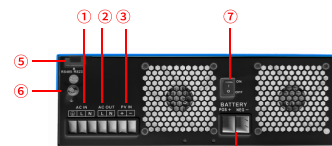
Pure sine wave



WiFi

Product Features

- Lithium battery activation function by PV or Utility
- Compatible work with lifepo4 battery via Rs485
- Pure sine wave
- Power factor 1.0
- PV input Voltage 60Vdc-500Vdc
- Built-in MPPT 60A / 100A / 120A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WiFi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- EQ function to optimize battery performance and extend lifecycle



1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232/ RS485 communication port
6. Grounding
7. Power on/off switch

Technical Data

MODEL	CO-EM1500-24L	CO-EM2500-24L	CO-EM3500-24L	CO-EM5500-48L	CO-EM6200-48L
Capacity	1.5KVA/1.5KW	2.5KVA/2.5KW	3.5KVA/3.5KW	5.5KVA/5.5KW	6.2KVA/6.2KW
Parallel Capability	NO	NO	NO	NO	NO
Lithium Battery activation	YES (By PV only)		YES (By PV or Utility)		
Lithium Battery communication	YES(RS485)				
INPUT					
Nominal Voltage	230VAC				
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)				
Frequency	50/60 Hz(Auto sensing)				
OUTPUT					
Nominal Voltage	220/230VAC±5%				
Surge Power	3000VA	5000VA	7000VA	11000VA	12400VA
Frequency	50/60Hz				
Waveform	Pure Sine wave				
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)				
Peak Efficiency(PV to INV)	96%				
Peak Efficiency(Battery to INV)	93%				
Overload Protection	5s@>=140% load; 10s@110%~140% load				
Crest Factor	3:1				
Admissible Power Factor	0.6~1 (inductive or capacitive)				
BATTERY					
Battery Voltage	24VDC	24VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	27VDC	27VDC	54VDC	54VDC
OverCharge Protection	33VDC	33VDC	33VDC	63VDC	63VDC
Charging Method	CC / CV				
Lithium Battery Activation	YES (By PV)				
Lithim battery Communication	YES(RS485)				
SOLAR CHARGER & AC CHARGER					
Solar Charger Type	MPPT				
Max.PV Array Power	2000W	3000W	4000W	5500W	6500W
Max.PV Array Open Circuit Voltage	500VDC				
PV Array MPPT Voltage Range	60VDC~500VDC				
Max.Solar Input Current	15A	15A	15A	18A	27A
Max.Solar Charge Current	60A	100A	100A	100A	120A
Max.AC Charge Current	60A	60A	80A	80A	80A
Max.Charge Current (PV+AC)	60A	100A	100A	100A	120A
PHYSICAL					
Dimensions,D x W x H(mm)	358*295*100	358*295*100	358*295*100	438*295*105	438*295*105
Package Dimensions,D x W x H(mm)	465*380*175	465*380*175	465*380*175	560*375*185	560*375*185
Net Weight(Kg)	6	6.5	7	9	9
Communication Interface	RS232+RS485				
ENVIRONMENT					
Operating Temperature Range	(-10℃ to 50℃)				
Storage Temperature	(-15℃ ~ 50℃)				
Humidity	5% to 95% Relative Humidity (Non-condensing)				

Product specifications are subject to change without further notice.