

C&I Energy Storage Inverter Series

Three-phase hybrid inverter

208V / 480V



KEY STRENGTHS

- Max. PV input power: 90kW, wide MPPT voltage range of 150–850V.
- Supports dual battery ports with 80A current each, compatible with mainstream 314Ah large-format cells.
- IP66 protection rating, suitable for outdoor environments from -35°C to +60°C.
- Peak power output up to 1.5 times rated power for 10 seconds.
- 4 MPPTs with support for multiple PV strings; Max. input current of 20A, compatible with all high-power PV modules.
- Supports 100% unbalanced three-phase loads, ensuring flexibility for asymmetric C&I power demands.

Model	R36KH3NA 208V	R60KH3NA 480V
Battery data		
Rated power (kW)	36	60
Battery voltage range (V)	150~500	150~800
Max. charging/discharging current(A)	80*2	
No. of battery input	2	
Battery type	Lithium-ion	

Model	R36KH3NA 208V	R60KH3NA 480V
DC input data		
Max. PV access power (kW)	54	90
Max. PV input power (kW)	54	90
Max. PV voltage (V)	1,000	
MPPT voltage range (V)	150~550	150~850
Start-up voltage (V)	180	
Max. input current per MPPT (A)	40	
Max. short-circuit current (A)	50	
No. of MPPT trackers	4	
No. of PV strings per MPPT	2	
Rated input voltage (V)	600	
AC output data (on-grid)		
Rated AC output active power (kW)	36	60
Rated AC output current (A)	100	72
Max. continuous AC passthrough(grid to load) (A)	200	
Rated grid voltage (V)	208	480
Grid type	3W+N+PE	
Rated grid frequency (Hz)	50/60	
THDi	< 3%	
AC output data (off-grid)		
Rated output power (kW)	36	60
Rated output voltage(V)	208(3W+N+PE)	480(3W+N+PE)
Rated output current(A)	100	72
Rated frequency(Hz)	60	
THDu	< 2%	
Protection		
Island protection	Supported	
PV reverse polarity protection	Supported	
Battery reverse polarity protection	Supported	
Insulation monitoring	Supported	
Residual current monitoring	Supported	
AC over current protection	Supported	
AC over power protection	Supported	
Back-up output short protection	Supported	
Short circuit protection	Supported	
RSD transmitter	Supported	
Interface		
HMI	APP; touch screen	
BMS	CAN	
EMS	RS485	
Meter	RS485	
Supported communication interface	WIFI or 4G or GPRS	
General data		
Dimensions W*D*H (mm)	530*280*850	
Weight (kg)	73	
Ingress protection	IP65	
Operating temperature range (°C)	-35~60°C	
Topology	Non-isolated	
Relative humidity	0~100%	
Operating altitude (m)	4,000(>2,000 Power derating)	
Cooling	Fan cooling	
Noise emission (dB)	≤65	
Installation	Wall mounted type	