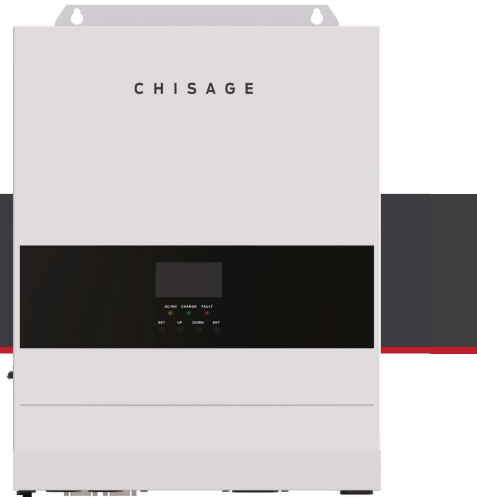


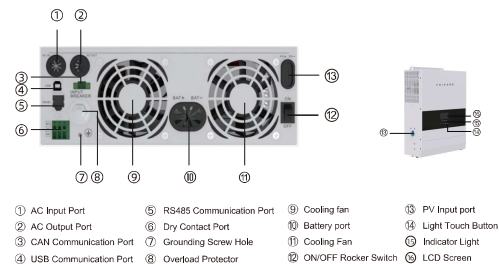
Off Grid Hybrid Inverter

CE2420-US-60-100
CE2430-US-60-100



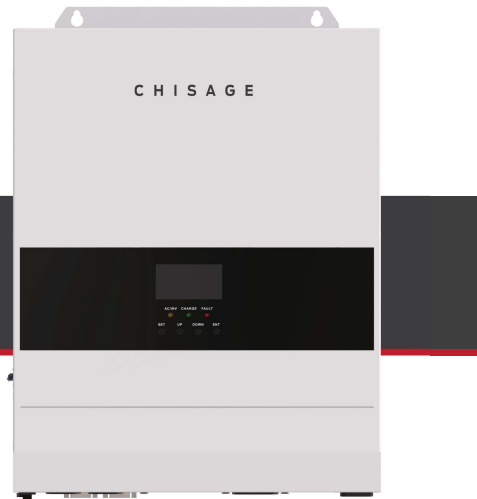
Product features

- Pure sine wave AC output
- Four charging modes
- Power saving function
- Support remote operation
- 360 °all-round protection
- Intelligent speed control fans
- Lithium battery activation design
- Battery charging requirement settings
- User-friendly communication module
- Support grid and PV activated lithium batteries
- Grid power bypass and inverter output modes
- Approved of CE/IEC 62109-1/UL 1741/CSA certifications



Technical Data		
Model	CE2420-US-60-100	CE2430-US-60-100
AC Input		
Rated input voltage	110/120Vac	
Input voltage range	(90Vac-140Vac)±2%	
Frequency	50Hz/60Hz (Auto detection)	
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);	
Overload/short circuit protection	Circuit breaker	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (typical)	
AC reverse protection	Available	
Maximum bypass overload current	40A	
AC Output		
Output voltage waveform	Pure sine wave	
Rated output power(VA)	2000	3000
Rated output power(W)	2000	3000
Power factor	1	
Rated output voltage (Vac)	120Vac	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Efficiency	>92%	
Overload protection	(102% < load <125%) ±10%; report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%; report error and turn off the output after 10 seconds; Load >150% ±10%; report error and turn off the output after 5 seconds;	
Peak power	4000	6000
Loaded motor capacity	1HP	2HP
Output short circuit protection	Circuit breaker	
Bypass breaker specifications	40A	
Rated battery input voltage	24V (Minimum starting voltage 22V)	
	20.0Vdc-33Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery... settable on LCD screen)	
Battery voltage range		
Power saving mode	Load ≤50W	
Battery Input		
Battery type	Lead acid or lithium battery	
Maximum charge current	40A	40A
Charge current error	± 5A _{dc}	
Charge voltage range	20.0Vdc-33Vdc	
Shortcircuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	40A	
Overcharge protection	Alarm and turn off charging after 1 minute	
Solar Input		
Maximum PV open circuit voltage	100Vdc	
PV operation voltage range	30-100Vdc	
MPPT voltage range	30-85Vdc	
Battery voltage range	20-33Vdc	
Maximum output power	1400W	
PV charging current range (can be set)	0-60A	
Charge short-circuit protection	Blown fuse	
Wiring protection	Reverse polarity protection	
Certified specifications		
Certification	CE(IEC 62109-1)/CETL(UL 1741/CSA C22.2 NO.107.1)	
EMC	EN61000, C2	
Operation temperature range	-15°C to 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
Heat dissipation	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485/WiFi/GPRS)/Dry node control	
Size (L*W*D)	378mm*280mm*103mm	
Weight (kg)	6.8	

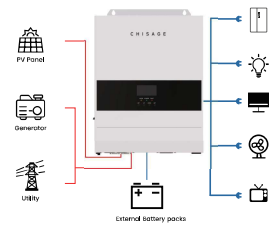
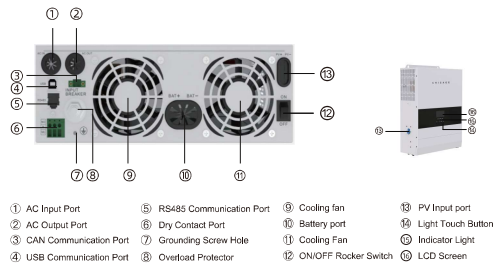
Off Grid Hybrid Inverter



CE4830-EU-60-H
CE4850-EU-80-H

Product features

- High PV input voltage
- Four charging modes
- Power saving function
- Pure sine wave AC output
- Multiple safety Protection
- Intelligent speed control fans
- LCD screen and LED indicator lights
- Grid power bypass and inverter output modes
- Support lead-acid and lithium battery connections
- Approved of CE/IEC 62109-1/UL 1741 /CSA certifications

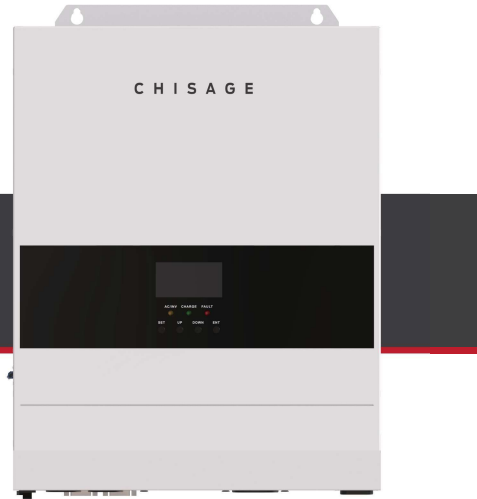


Technical Data

Model	CE4830-EU-60-H	CE4850-EU-80-H
AC Input		
Rated input voltage	220/230Vac	
Input voltage range	(170Vac~280Vac) ±2%; (90Vac~280Vac)±2%	
Frequency	50Hz/ 60Hz (Auto sensing)	
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);	
Overload/short circuit protection	Breaker	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (Typical value)	
AC reverse protection	yes	
Maximum bypass overload current	40A	
AC Output		
Output voltage waveform	Pure sine wave	
Rated output power(VA)	3000(2600/2700/3000)	5000(4350/4500/4800/5000)
Rated output power(W)	3000(2600/2700/3000)	5000(4350/4500/4800/5000)
Power factor	1	
Rated output voltage (Vac)	230Vac (200/208/220/240Vac settable)	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Efficiency	>90%	
Overload protection	(102% < load < 125%) ±10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load >150% ±10%: report error and turn off the output after 5 seconds;	
Peak power	6000VA	10000VA
Loaded motor capacity	2HP	4HP
Output short circuit protection	Breaker	
Bypass breaker specifications	40A	
Rated battery input voltage	48V (Minimum starting voltage 44V)	
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)	
Power saving mode	Load ≤50W	
Battery Input		
Battery type	Lead acid or lithium battery	
Maximum charge current	60A	
Charge current error	± 5A _{dc}	
Charge voltage range	40.0Vdc~60Vdc	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	40A	
Overcharge protection	Turn off charge after 1min alarm	
Solar Input		
Maximum PV open circuit voltage	500Vdc	
PV operation voltage range	120-500Vdc	
MPPT voltage range	120-450Vdc	
Battery voltage range	40-60Vdc	
Maximum output power	4200W	5000W
PV charging current range (can be set)	0-60A	0-80A
Charge short circuit protection	Blown fuse	
Wiring protection	Inverse wiring protection	
Certified specifications		
Certification	CE(IEC 62109-1)	
EMC authentication grade	EN61000	
Operation temperature range	-15°C to 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
Heat dissipation	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485(WiFi)/GPRS/dry node control	
Size (L*W*D)	426mm*322mm*126mm	
Weight (kg)	10.9	

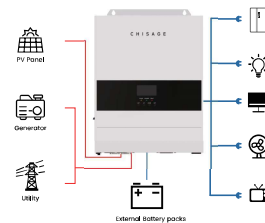
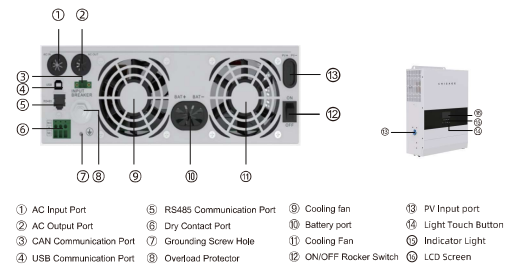
Off Grid Hybrid Inverter

CE4835-US-60-H
CE4850-US-80-H



Product features

- Pure sine wave AC output
- High PV input voltage
- Four charging modes
- Power saving function
- Multiple safety Protection
- Intelligent speed control fans
- LCD screen and LED indicator lights
- Grid power bypass and inverter output modes
- Support lead-acid and lithium battery connections
- Approved of CE/IEC 62109-1/UL 1741 /CSA certifications

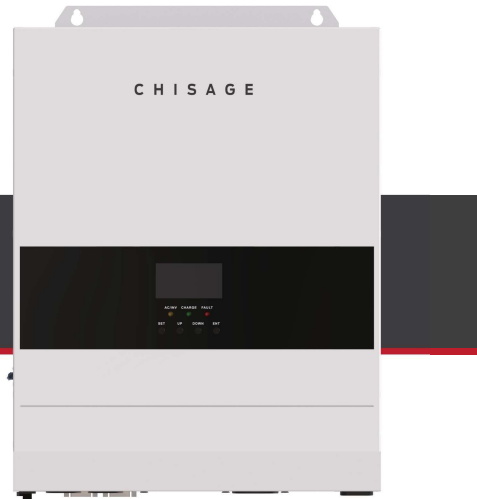


Technical Data

Model	CE4835-US-60-H	CE4850-US-80-H
AC Input		
Rated input voltage	110Vac/120V	
Input voltage range	(90Vac-140Vac) ±2%	
Frequency	50Hz/ 60Hz (auto-sensing)	
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);	
Overload/short circuit protection	Breaker	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (Typical value)	
AC reverse protection	yes	
Maximum bypass overload current	40A	63A
AC Output		
Output voltage waveform	Pure sine wave	
Rated output power(VA)	3000(2600/2700/3000)	5000(4350/4500/4800/5000)
Rated output power(W)	3000(2600/2700/3000)	5000(4350/4500/4800/5000)
Power factor	1	
Rated output voltage (Vac)	120Vac	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Efficiency	>90%	
Overload protection	(102%~load<125%) ±10%: reporting error and turn off the output after 5 minutes; (125%~load<150%) ±10%: reporting error and turn off the output after 10 seconds; Load>150% ±10%: reporting error and turn off the output after 5 seconds;	
Peak power	7000VA	10000VA
Loaded motor capacity	2HP	4HP
Output short circuit protection	Breaker	
Bypass breaker specifications	40A	63A
Rated battery input voltage	48V (minimum start voltage 44V)	
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restoration...settable LCD screen)	
Power saving mode	Load ≤50W	
Battery Input		
Battery type	Lead acid or lithium battery	
Maximum charge current	40A	
Charge current error	± 5Adc	
Charge voltage range	40~60Vdc	
Short circuit protection	Breaker and blown fuse	
Circuit breaker specifications	40A	63A
Overcharge protection	Turn off charge after 1min alarm	
Solar Input		
Maximum PV open circuit voltage	450Vdc	500V
PV operation voltage range	120-450Vdc	120-500Vdc
MPPT voltage range	120- 430Vdc	120-450Vdc
Battery voltage range	40-60Vdc	
Maximum output power	4200W	5000W
PV charging current range (can be set)	0-60A	0-80A
Charge short circuit protection	Blown fuse	
Wiring protection	Inverse wiring protection	
Certified specifications		
Certification	CE (IEC 62109-1) /CETL (UL 1741/CSA C22.2NO.107.1)	
EMC authentication grade	EN 61000	
Operation temperature range	-15°C to 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
Heat dissipation	Forced cooling with adjustable air speed	
Communication interface	USB / RS485 (WiFi / GPRS) / dry node control	
Size (L*W*D)	426mm*322mm*126mm	
Weight (kg)	10,9	11,6

Off Grid Hybrid Inverter

CE2430-EU-80-H



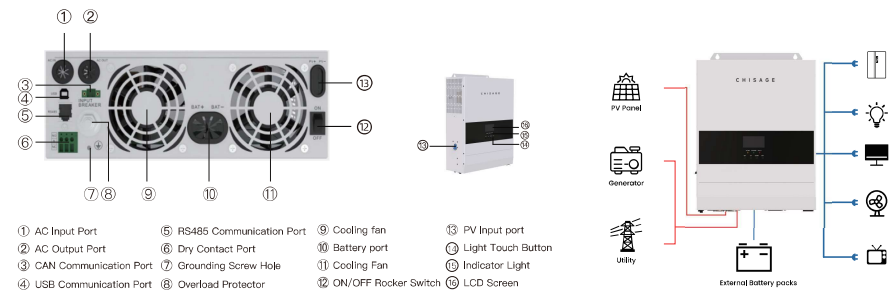
Product features

- Pure sine wave AC output
- High PV input voltage
- High energy efficiency
- Power saving function
- Intelligent programming
- Efficient heat dissipation
- Multiple safety protection
- Uninterrupted power supply
- Instant viewing of operation
- Approved of CE/IEC 62109-1 certifications
- Support a wide range of battery technology
- Support grid and PV activated lithium batteries

Technical Data

Model	CE2430-EU-80-H
AC Charge	
Battery type	Sealed, Flood, GEL, LFP, Ternary
Rated Battery Input voltage	24V (Minimum Startup Voltage 22V)
Hybrid Charging Maximum Charging Current	80A
Battery voltage Range	20Vdc-33Vdc±0.3Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)
Solar Charge	
Maximum PV Open circuit Voltage	500Vdc
PV Working Voltage Range	120-500Vdc
MPPT Voltage Range	120-450Vdc
Maximum PV Input Current	13A
Maximum PV Input Power	4000W
Maximum PV Charging Current	80A
AC Input (generator/grid)	
Mains Maximum Charging Current	80A
Rated Input Voltage	220/230Vac
Input Voltage Range	UPS Mains Mode: (170Vac-280Vac)±2% APL Generator Mode: (90Vac-280Vac)±2%
Frequency	50Hz/ 60Hz (Automatic Detection)
Mains Charging Efficiency	>92%
Switch Time (bypass and inverter)	10ms(Typical Value)
Maximum Bypass Overload Current	30A
AC Output	
Output Voltage Waveform	Pure Sine Wave
Rated Output Voltage (Vac)	230Vac (200/208/220/240Vac)
Rated Output Power (VA)	3300 (2850/2950/3150/3000)
Rated Output Power(W)	3300 (2850/2950/3150/3000)
Peak Power	6000VA
On-load Motor Capacity	2HP
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum Efficiency	>92%
No load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤ 25W (Manual Setup)
General	
Certificate	CE(IEC 62109-1)
EMC Certification Level	EN61000, C2
Working Temperature Range	-10°C ~ 55°C
Storage Temperature Range	-25°C ~ 60°C
Humidity Range	5% to 95%(Conformal Coating Protection)
Dimensions	378mm*280mm*103mm
Weight (KG)	6.8

Product connection diagram



Off Grid Hybrid Inverter



CE4825-US-80-145
 CE4830-US-80-145
 CE4835-US-80-145

Product features

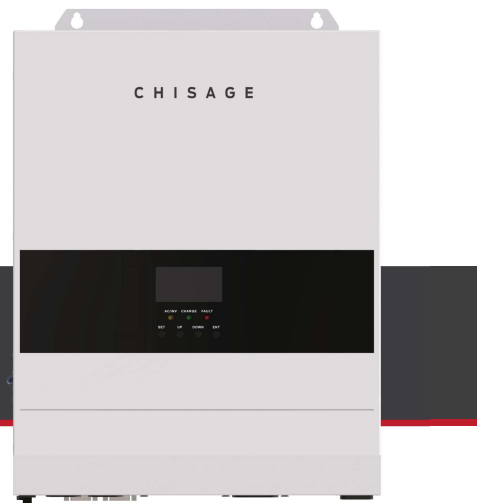
- Four charging modes
- 360° all-round protection
- Pure sine wave AC output
- Support remote operation
- Lithium battery activation design
- User-friendly communication module
- Battery charging requirement settings
- Approved of CE/EN 62109-1 certifications
- Grid power bypass and inverter output modes
- Power saving function Intelligent speed control fans

Technical Data

Model	AU4825-US-80-145	AU4830-US-80-145	AU4835-US-80-145
AC Charge			
Rated input voltage	110Vac/120Vac		
Input voltage range	(90Vac-140Vac) ±2%		
Frequency	50Hz/ 60Hz (Auto detection)		
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);		
Overload/short circuit protection	Circuit breaker		
Efficiency	>95%		
Conversion time (bypass and inverter)	10ms (Typical value)		
AC reverse protection	Available		
Maximum bypass overload current	40A		
Solar Charge			
Output voltage waveform	Pure sine wave		
Rated output power(VA)	2500	3000	3500
Rated output power(W)	2500	3000	3500
Power factor	1		
Rated output voltage (Vac)	120Vac		
Output voltage error	±5%		
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Efficiency	>91%		
Overload protection	(102%<Iload<125%) ±10%: reporting error and turn off the output after 5 minutes; (125%<Iload<150%) ±10%: reporting error and turn off the output after 10 seconds; Load>150% ±10%: reporting error and turn off the output after 5 seconds;		
Peak power	4000VA	4500VA	5000VA
Loaded motor capacity	1HP	2HP	2HP
Output short circuit protection	Circuit breaker		
Bypass breaker specifications	40A		
Rated battery input voltage	48V (minimum start voltage 44V)		
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)		
Power saving mode	Load ≤50W		
Battery Input			
Battery type	Lead acid or lithium battery		
Maximum charge current	40A		
Charge current error	± 5A _{dc}		
Charge voltage range	40-60V _{dc}		
Shortcircuit protection	Circuit breaker and blown fuse		
Circuit breaker specifications	40A		
Overcharge protection	Alarm and turn off charging after 1 minute		
Solar Input			
Maximum PV open circuit voltage	145V _{dc}		
PV operation voltage range	60-145V _{dc}		
MPPT voltage range	60- 115V _{dc}		
Battery voltage range	40-60V _{dc}		
Maximum output power	4200W		
PV charging current range (can be set)	0-80A		
Charge short-circuit protection	Blown fuse		
Wiring protection	Reverse polarity protection		
Certified specifications			
Certification	CE(EN62109-1)		
EMC authentication grade	EN61000_C2		
Operation temperature range	-15°C to 55°C		
Storage temperature range	-25°C ~ 60°C		
Humidity range	5% to 95% (Conformal coating protection)		
Noise	≤60dB		
Heat dissipation	Forced air cooling, variable speed of fan		
Communication interface	USB / RS485 (WiFi / GPRS) / dry node control		
Size (L*W*D)	426mm*322mm*124mm		
Weight (kg)	10.8		

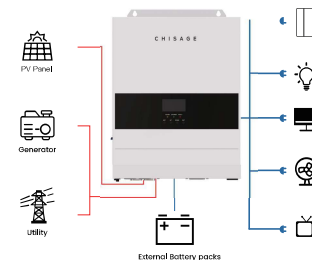
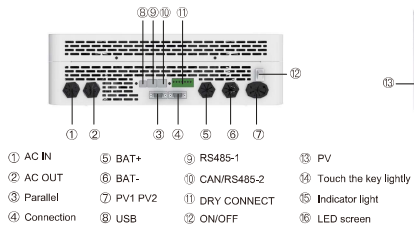
Off Grid Hybrid Inverter

CE4830-EU-60-145



Performance Characteristics

- Pure sine wave AC output
- Grid power bypass and inverter output modes
- Four charging modes
- Battery charging requirement settings
- Power saving function
- Intelligent speed control fans
- Lithium battery activation design
- User-friendly communication module
- Support remote operation
- 360 °all-round protection
- Approved of CE/EN 62109-1 certifications



Technical Data

Model	CE-4830-EU-60-145
AC Input	
Rated input voltage	220/230Vac
Input voltage range	(170Vac~280Vac) ±2%; (90Vac~280Vac)±2%
Frequency	50Hz/ 60Hz (Auto detection)
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (Typical)
AC reverse protection	Available
Maximum bypass overload current	30A
AC Output	
Output voltage waveform	Pure sine wave
Rated output power(VA)	3300
Rated output power(W)	3300
Power factor	1
Rated output voltage (Vac)	230Vac
Output voltage error	±5%
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz
Maximum Efficiency	>92%
Overload protection	(110% < load <125%) ±10%; report error and turn the output after 5 minutes;(125% < load <150%) ± 10%; report error and turn the output after 10 seconds;Load >150% ±10%; report error and turn the output after 5 seconds;
Peak power	6000VA
Loaded motor capability	2HP
Output short circuit protection	Circuit Breaker
Bypass breaker specifications	30A
Rated battery input voltage	48V (Minimum starting voltage 44V)
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)
Power saving mode	Load ≤ 50W
Battery Input	
Battery type	Lead acid or lithium battery
Maximum charge current	60A
Charge voltage range	40.0Vdc~60Vdc
Shortcircuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	30A
Overcharge protection	Alarm and turn off charging after 1 minute
Solar Input	
Maximum PV open circuit voltage	145Vdc
PV operation voltage range	60-145Vdc
MPPT voltage range	60-115Vdc
Battery voltage range	40-60Vdc
Maximum input power	3400W
PV charging current range (can be set)	0-60A
Charge short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Certified specifications	
Certification	CE(IEC 62109-1)
EMC authentication grade	EN61000, C2
Operation temperature range	-15°C to 55°C
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	CAN/USB/RS485(WiFi/GPRS)/Dry node control
Size (L*W*D)	378mm*280mm*103mm
Weight (kg)	6.2

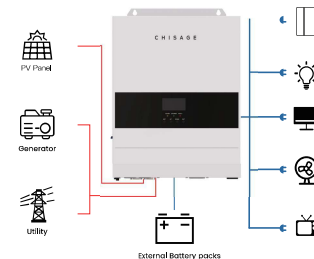
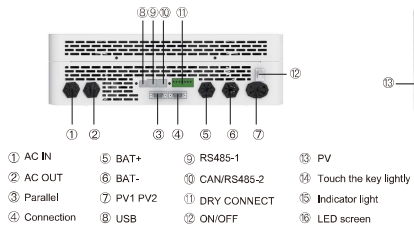
Off Grid Hybrid Inverter

CE4850-EU-80-145
CE4840-EU-60-145



Performance Characteristics

- Pure sine wave AC output
- Grid power bypass and inverter output modes
- Four charging modes
- Battery charging requirement settings
- Power saving function
- Intelligent speed control fans
- Lithium battery activation design
- User-friendly communication module
- Support remote operation
- 360 °all-round protection
- Approved of CE/EN 62109-1 certifications



Technical Data

Model	CE4840-EU-145	CE4850-EU-80-145
AC Input		
Rated input voltage	220/230Vac	
Input voltage range	(170Vac~280Vac) ±2%; (90Vac~280Vac)±2%	
Frequency	50Hz/ 60Hz (Auto detection)	
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);	
Overload/short circuit protection	Circuit breaker	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (Typical)	
AC reverse protection	Available	
Maximum bypass overload current	40A	
AC Output		
Output voltage waveform	Pure sine wave	
Rated output power(VA)	4000	5000
Rated output power(W)	4000	5000
Power factor	1	
Rated output voltage (Vac)	230Vac	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Maximum Efficiency	>92%	
Overload protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load >150% ±10%: report error and turn off the output after 5 seconds;	
Peak power	8000VA	10000VA
Loaded motor capability	3HP	4HP
Output short circuit protection	Circuit breaker	
Bypass breaker specifications	40A	
Rated battery input voltage	48V (Minimum starting voltage 44V)	
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)	
Power saving mode	Load <50W	
Battery Input		
Battery type	Lead acid or lithium battery	
Maximum charge current	60A	
Charge current error	± 5A/dc	
Charge voltage range	40~58Vdc	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	40A	
Overcharge protection	Alarm and turn off charging after 1 minute	
Solar Input		
Maximum PV open circuit voltage	145Vdc	
PV operation voltage range	60-145Vdc	
MPPT voltage range	60-115Vdc	
Battery voltage range	40-60Vdc	
Maximum output power	4200W	
PV charging current range (can be set)	0-80A	
Charge short circuit protection	Blown fuse	
Wiring protection	Reverse polarity protection	
Certified specifications		
Certification	CE(EN 62109-1)	
EMC authentication grade	EN61000, C2	
Operation temperature range	-15°C to 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
Heat dissipation	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485/WIFI/GPRS/Dry node control	
Size (L*W*H)	426mm*322mm*124mm	
Weight (kg)	10.8	

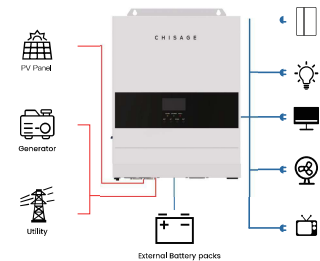
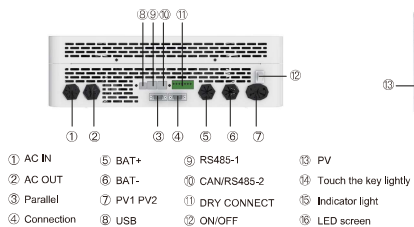
Off Grid Hybrid Inverter

CEP4835-US-80-145



Performance Characteristics

- Pure sine wave AC output
- User-friendly communication module
- Grid power bypass and inverter output modes
- Support remote operation
- Four charging modes
- 360 °all-round protection
- Battery charging requirement settings
- Available for Max.6 units parallel connection
- Power saving function
- Available for split phase connection
- Intelligent speed control fans
- Approved of CE/IEC 62109-1/UL 1741 /CSA certifications
- Lithium battery activation design



Technical Data

Model	CEP4835-US-80-145
AC Input	
Rated input voltage	110/120Vac
Input voltage range	(90Vac~140Vac) ±2%
Frequency	50Hz/ 60Hz (Auto detection)
Number of parallel / split phases	1-6
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (Typical)
AC reverse protection	Available
Maximum bypass overload current	40A
AC Output	
Output voltage waveform	Pure sine wave
Rated output power(VA)	3500
Rated output power(W)	3500
Power factor	1
Rated output voltage (Vac)	120Vac
Output voltage error	±5%
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz
Maximum Efficiency	>91%
Overload protection	(102% < load <125%) ±10%: report error and turn the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn the output after 10 seconds; Load >150% ±10%: report error and turn the output after 5 seconds;
Peak power	6000VA
Loaded motor capability	2HP
Output short circuit protection	Circuit Breaker
Bypass breaker specifications	40A
Rated battery input voltage	48V (Minimum starting voltage 44V)
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)
Power saving mode	Load ≤60W
Battery Input	
Battery type	Lead acid or lithium battery
Maximum charge current	40A
Charge current error	±3Adc
Charge voltage range	40~60Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	40A
Overcharge protection	Alarm and turn off charging after 1 minute
Solar Input	
Maximum PV open circuit voltage	145Vdc
PV operation voltage range	60-145Vdc
MPPT voltage range	60-115Vdc
Battery voltage range	40~60Vdc
Maximum PV input power	4400W
Maximum PV input current	50A
Maximum output power	4200W
PV charging current range (can be set)	0-80A
Charge short-circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Certified specifications	
Certification	CE(IEC 62109-1)/CETL(UL 1741/CSA C22.2 NO.107.1)
EMC authentication grade	EN61000, C2
Operation temperature range	-15°C to 55°C
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	USB/RS485(WiFi)/GPRS/Dry node control
Size (L*W*D)	426mm*322mm*124mm
Weight (kg)	10.8

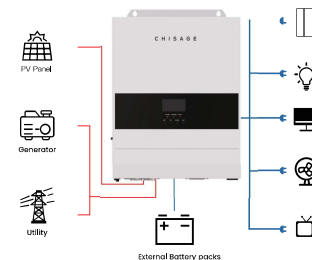
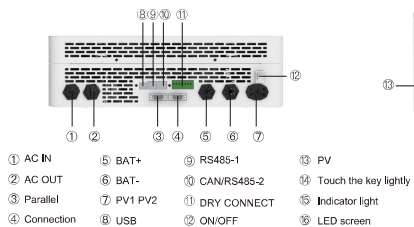
Off Grid Hybrid Inverter

CEP4850-EU-80-145



Performance Characteristics

- Pure sine wave AC output
- Grid power bypass and inverter output modes
- Four charging modes
- Battery charging requirement settings
- Power saving function
- Intelligent speed control fans
- Lithium battery activation design
- User-friendly communication module
- Support remote operation
- 360° all-round protection
- Available for Max. 6 units parallel connection
- Approved of CE/IEC 62109-1 certifications



Technical Data

Model	CEP4850-EU-80-145
AC Input	
Rated input voltage	220/230Vac
Input voltage range	(170Vac-280Vac) ±2%; (90Vac-280Vac)±2%
Frequency	50Hz/ 60Hz (Auto detection)
Number of parallel/split phases	1-6
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (Typical)
AC reverse protection	Available
Maximum bypass overload current	40A
AC Output	
Output voltage waveform	Pure sine wave
Rated output power(VA)	5000
Rated output power(W)	5000
Power factor	1
Rated output voltage (Vac)	230Vac
Output voltage error	±5%
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz
Maximum Efficiency	>92%
Overload protection	(102% < load <110%) ±10%: report error and turn o the output after 5 minutes; (110% < load < 125%) ±10%: report error and turn o the output after 10 seconds; (Load >125% ±10%): report error and turn o the output after 5 seconds;
Peak power	10000VA
Loaded motor capacity	3HP
Output short circuit protection	Circuit Breaker
Bypass breaker specifications	40A
Rated battery input voltage	48V (Minimum starting voltage 44V)
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm/charge voltage... settable on LCD screen)
Power saving mode	Load ≤60W
Battery Input	
Battery type	Lead acid or lithium battery
Maximum charge current	60A
Charge current error	±3A dc
Charge current error	40 ~58Vdc
Shortcircuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	40A
Overcharge protection	Alarm and turn off charging after 1 minute
Solar Input	
Maximum PV open circuit voltage	145Vdc
PV operation voltage range	60-145Vdc
MPPT voltage range	60-115Vdc
Battery voltage range	40-80Vdc
Maximum PV input power	4400W
Maximum PV input current	50A
Maximum output power	4200W
PV charging current range (can be set)	0-80A
Charge short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Certified specifications	
Certification	CE(IEC 62109-1)
EMC authentication grade	EN61000, C2
Operation temperature range	-15°C to 55°C
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	USB/RS485(WiFi/GPRS)/Dry node control
Size (L*W*D)	426mm*322mm*124mm
Weight (kg)	10.8

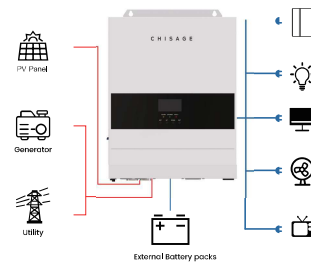
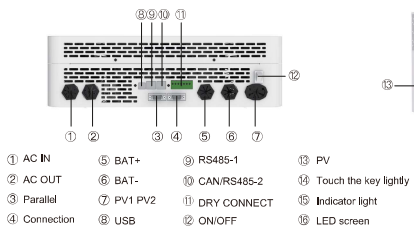
Off Grid Hybrid Inverter

CEP4850-EU-80-H



Performance Characteristics

- Pure sine wave AC output
- Instant viewing of operation
- High PV output voltage
- Power saving function
- Support a wide range of battery technology
- Efficient heat dissipation
- Support grid and PV activated lithium batteries
- Multiple safety protection
- Uninterrupted power supply
- Available for Max. 6 units parallel connection
- Intelligent programming
- Approved of CE/IEC 62109-1/UL 1741 /CSA certifications
- High energy efficiency



Technical Data

Model	CEP4850-EU-80-H
Battery Input	
Battery type	Sealedb, Flood, GEL, LFP, Ternary
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)
Hybrid Charging Maximum Charging Current	80A
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)
Solar Input	
Maximum PV Open-circuit Voltage	500Vdc
PV Working Voltage Range	120-500Vdc
MPPT Voltage Range	120-450Vdc
Maximum PV Input Current	22A
Maximum PV Input Power	5500W
Maximum PV Charging Current	80A
AC Input(generator/grid)	
Mains Maximum Charging Current	60A
Rated Input Voltage	220/230Vac
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac~280Vac)±2%
Frequency	50Hz/ 60Hz (Automatic Detection)
Mains Charging Efficiency	>95%
Switch Time (bypass and inverter)	10ms(Typical Value)
Maximum Bypass Overload Current	40A
Output	
Output Voltage Waveform	Pure Sine Wave
Rated Output Voltage (Vac)	230Vac (200/208/220/240Vac)
Rated Output Power (VA)	5000 (4350/4500/4750/5000)
Rated Output Power(W)	5000 (4350/4500/4750/5000)
Peak Power	10000VA
On-load Motor Capacity	4HP
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum Efficiency	>92%
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)
General	
Number of parallel/split phases	1-6PCS
Certificate	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)
EMC Certification Level	EN61000, C2
Working Temperature Range	-10°C ~ 55°C
Storage Temperature Range	-25°C ~ 60°C
Humidity Range	5% to 95%(Conformal Coating Protection)
Dimensions	428mm*322mm*124mm
Weight (KG)	10,5

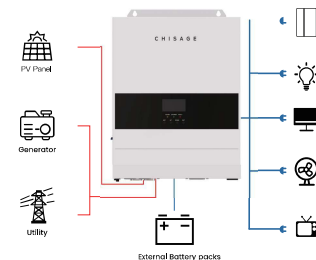
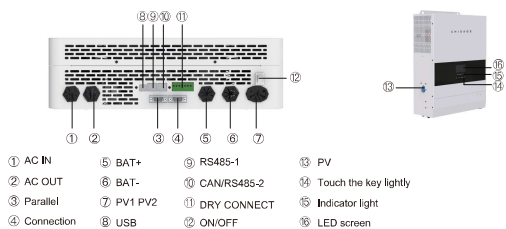
Off Grid Hybrid Inverter

CE4830-EU-60-HB
CE4850-EU-80-HB



Performance Characteristics

- Pure sine wave AC output
- High PV input voltage
- Grid power bypass and inverter output modes
- Four charging modes
- Support lead-acid and lithium battery connections
- LCD screen and LED indicator lights
- Power saving function
- Intelligent speed control fans
- Multiple safety Protection
- Approved of CE/IEC 62109-1/UL 1741 /CSA certifications

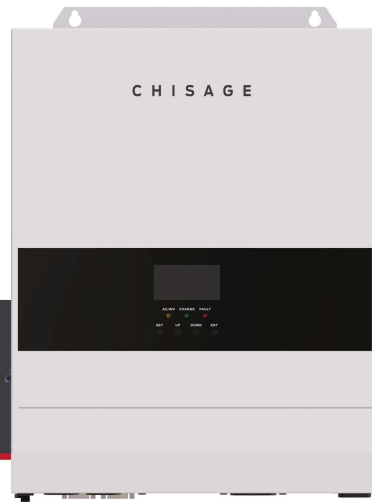


Technical Data

Model	CE4830-EU-60-HB	CE4850-EU-80-HB
AC Input		
Rated input voltage	220/230Vac	
Input voltage range	(170Vac~280Vac) ±2%; (90Vac~280Vac)±2%	
Frequency	50Hz/ 60Hz (Auto sensing)	
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);	
Overload/short circuit protection	Breaker	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (Typical value)	
AC reverse protection	yes	
Maximum bypass overload current	40A	
AC Output		
Output voltage waveform	Pure sine wave	
Rated output power(VA)	3000 (2600/2700/3000)	5000(4100/4300/4500)
Rated output power(W)	3000 (2600/2700/3000)	5000(4100/4300/4500)
Power factor	1	
Rated output voltage (Vac)	230Vac (200/208/240Vac settable)	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Efficiency	>90%	
Overload protection	(102% < load <125%) ±10%; report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%; report error and turn off the output after 10 seconds; Load >150% ±10%; report error and turn off the output after 5 seconds;	
Peak power	6000VA	10000VA
Loaded motor capacity/Loaded motor capacity	2HP	4HP
Output short circuit protection	Breaker	
Bypass breaker specifications	40A	
Rated battery input voltage	48V (Minimum starting voltage 44V)	
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)	
Power saving mode	Load ≤50W	
Battery Input		
Battery type	Lead acid or lithium battery	
Maximum charge current	60A	
Charge current error	± 5A dc	
Charge voltage range	40.0Vdc~60Vdc	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	40A	
Overcharge protection	Turn off charge after 1min alarm	
Solar Input		
Maximum PV open circuit voltage	500Vdc	
PV operation voltage range	120~500Vdc	
MPPT voltage range	120~450Vdc	
Battery voltage range	40~80Vdc	
Maximum output power	4200W	5000W
PV charging current range (can be set)	0~60A	0~80A
Charge short circuit protection	Blown fuse	
Wiring protection	Inverse wiring protection	
Mixed load function	Yes	
Certified specifications		
Certification	CE(IEC62109), RoHS	
EMC authentication grade	EN61000	
Operation temperature range	-15°C to 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
Heat dissipation	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485(WiFi/GPRS)/Dry node control	
Size (L*W*D)	426mm*322mm*126mm	
Weight (kg)	10.9	

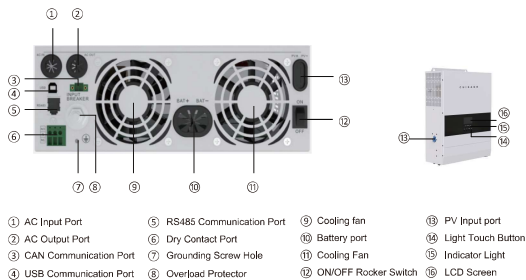
Off Grid Hybrid Inverter

CE2420-EU-60-100
CE2430-EU-60-100



Performance Characteristics

- Pure sine wave AC output
- Grid power bypass and inverter output modes
- Four charging modes
- Battery charging requirement settings
- Power saving function
- Intelligent speed control fans
- Lithium battery activation design
- User-friendly communication module
- Support remote operation
- 360 ° all-round protection
- Support grid and PV activated lithium batteries
- Approved of CE/IEC 62109-1 certifications



Technical Data

Model	CE2420-EU-60-100	CE2430-EU-60-100
AC Input		
Rated input voltage	220/230Vac	
Input voltage range	(170Vac~280Vac) ±2% ; (90Vac~280Vac)±2%	
Frequency	50Hz/ 60Hz (Auto detection)	
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);	
Overload/short circuit protection	Circuit breaker	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (Typical)	
AC reverse protection	Available	
Maximum bypass overload current	30A	
AC Output		
Output voltage waveform	Pure sine wave	
Rated output power(VA)	2000	3000
Rated output power(W)	2000	3000
Power factor	1	
Rated output voltage (Vac)	230Vac	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	
Efficiency	>92%	
Overload protection	(102% < load < 125%) ±10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load > 150% ±10%: report error and turn off the output after 5 seconds;	
Peak power	4000	6000
Loaded motor capacity	1HP	2HP
Output short circuit protection	Circuit breaker	
Bypass breaker specifications	30A	
Rated battery input voltage	24V (Minimum starting voltage 22V)	
Battery voltage range	20.0Vdc~33Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)	
Power saving mode	Load ≤50 W	
Battery Input		
Battery type	Lead acid or lithium battery	
Maximum charge current	60A	80A
Charge current error	± 5Adc	
Charge voltage range	20.0Vdc~33Vdc	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	30A	
Overcharge protection	Alarm and turn off charging after 1 minute	
Solar Input		
Maximum PV open circuit voltage	100Vdc	
PV operation voltage range	30-100Vdc	
MPPT voltage range	30-85Vdc	
Battery voltage range	18-33Vdc	
Maximum output power	1400W	
PV charging current range (can be set)	0-60A	
Charge short circuit protection	Blown fuse	
Wiring protection	Reverse polarity protection	
Certified specifications		
Certification	CE(IEC 62109-1)	
EMC authentication grade	EN61000, C2	
Operation temperature range	-15°C to 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
Heat dissipation	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485/WIFI/GPRS/dry node control	
Size (L*W*D)	378mm*280mm*103mm	
Weight (kg)	6.2	

Off Grid Hybrid Inverter

CEP4880-US-200-H
CEP48100-EU-200-H



Product features

- Pure sine wave AC output
- Efficient heat dissipation
- High PV output voltage
- Multiple safety protection
- Uninterrupted power supply
- Support a wide range of battery technology
- Intelligent programming
- Support grid and PV activated lithium batteries
- High energy efficiency
- Available for Max. 6 units parallel connection
- Instant viewing of operation
- Power saving function
- Approved of IEC62109-1/ IEC62109-2/UL1741 certifications

Technical Data

Model	CEP4880-US-200-H	CEP48100-EU-200-H
Battery Input Data		
Battery type	Lead-acid or Li-Ion	
Battery Voltage Range(V)	40-60V	
Max. Charging Current(A)	180A	220A
Max. Discharging Current(A)	180A	220A
Charging Curve	3 Stages / Equalization	
External Temperature Sensor	yes	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV Input Data		
Max. DC Input Power(W)	11000	
PV Input Voltage(V)	370V (100V-500V)	
MPPT Range(V)	125-425V	
Start-up Voltage(V)	120V	
PV Input Current(A)	22A+22A	
No. of MPPT Trackers	2	
No. of Strings Per MPPT Tracker	2+2	
AC Output		
Rated AC Output and UPS Power(W)	8000	10000
Max. AC Output Power(W)	8800	11000
Max. AC Output Power(W)	2 times of rated power, 10 S	
AC Output Rated Current(A)	33,3A/33,3A	43,5A
Max. AC Current(A)	63A	
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50 / 60Hz; 120-0-120Vac (two split phase); 220/230Vac (single Phase)	
Grid Type	two split phase or single Phase	
Current Harmonic Distortion	THD<3%	
Efficiency		
Battery discharge efficiency(Peak)	92%	
AC charge efficiency(Peak)	95%	
MPPT trace efficiency	99.9%	
PV charge efficiency(Peak)	95%	
Certifications and Standards		
Safety Regulation	IEC62109-1, IEC62109-2, UL1741	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
General Data		
Dimensions (L / W / D) in mm	620*430*130mm	
Weight	20Kg	21Kg
Noise(dB)	< 60dB	
Operating temperature range	-15 °C-55 °C, >45 °C Derating	
Storage temperature range	-25 °C-60 °C	
Installation	Indoors ,Wall-mounted	
Protection rating	IP20	
Communication with BMS	RS485/ CAN	
Warranty	2	
Product connection diagram		

