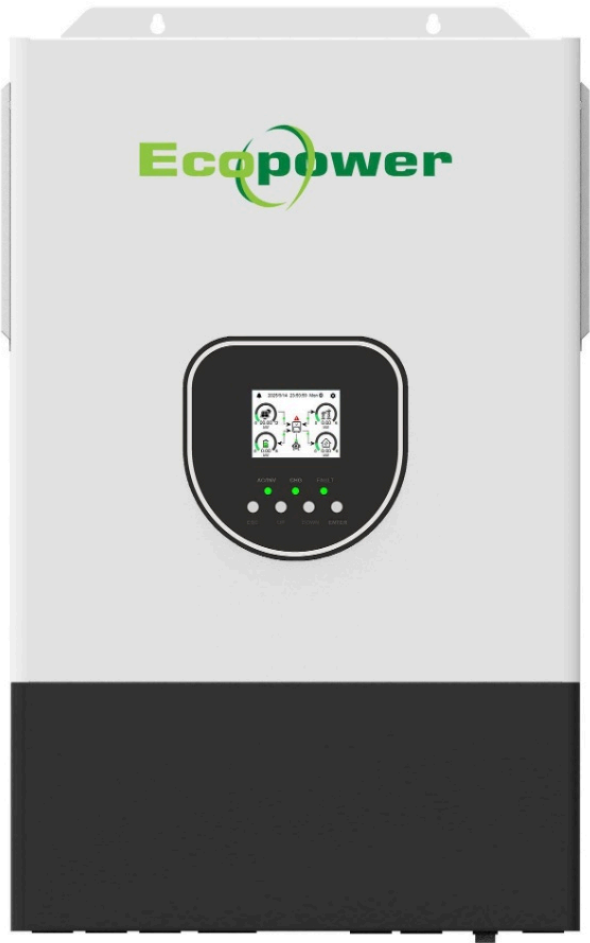


DATASHEET

HYBIRD ECOPOWER 12KW 1 PHA
MODEL: EP-12KAT- 48P1L



Models	8KS48P1	10KS48P1	12KS48P1
Parallel mode			
Permitted parallel number	NO/ 1~6	NO/ 1~6	NO/ 1~6
AC mode			
Rated input voltage	230Vac±5%		
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		
Maximum charging efficiency	>93%		
Conversion time (bypass and inverter)	10ms (typical)		
AC reverse protection	Yes		
Maximum bypass overload current	60A		
Inverter mode			
Output voltage waveform	Pure sine wave		
Rated output power (VA)	8000	10000	12000
Rated output power (W)	8000	10000	12000
Power factor	1		
Rated output voltage (Vac)	230Vac		
Output voltage error	±5%		
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz		
Maximum output efficiency	>94%		

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	16000VA	22000VA	24000VA
Loaded motor capability	5HP	7HP	8HP
Output short circuit protection	200ms protection		
Bypass circuit breaker specification	63A		
Rated battery input voltage	51.2V (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 self-consumption	Load≤50W		
AC charging			
Battery type	Lead acid or lithium battery		
Maximum charge current(can be set)	120A	150A	150A
Charge current error	±5A _{dc}		
Charge voltage range	40 – 60V _{dc}		
Short circuit protection	Circuit breaker		
Circuit breaker specifications	63A		
PV charging			
MPPT way	2		
Maximum PV open circuit voltage	500V _{dc}		
PV operating voltage range	120-500V _{dc}		
MPPT voltage range	90-450V _{dc}		
Battery voltage range	40-60V _{dc}		
Maximum PV input power	5500W+5500W		9000W+9000W
Maximum PV input current	22A+22A		27A+27A

PV charging current range (can be set)	0-150A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC charger+PV charger)	
Max charger current(can be set)	0-150A
Certified specifications	
Certification	CE(IEC62109-1,2)
EMC certification level	EN61000, C2
Operating temperature range	-10°C to 55°C,> 45°C drop runs
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)	540mm*350mm*120mm
Weight (kg)	19.5