

Model No.	CK4.0M	CK5.0M	CK4.0S	CK5.0S	CK6.0S	CK8.0S
Power topology	Transformer based					
Power assist	Yes					
Feed-in to grid	Yes					
AC input voltage range (VAC)	175~265					
AC input Frequency range (Hz)	45~65					
AC input Current (transfer switch) (A)	50					

Inverter

Nominal battery voltage (VDC)	24		48			
Input voltage range (VDC)	21~34		42~68			
AC output voltage(VAC)	220/230/240 ± 2%					
AC output Frequency(Hz)	50/60 ± 0.1%					
Harmonic distortion	< 2%					
Load Power factor	1.0					
Cont. output power at 25°C (VA)	4000	5000	4000	5000	6000	8000
Cont. output power at 25°C (W)	3600	4500	3200	4000	4800	6500
Peak power (30min) (W)	4000	5000	4000	5000	6000	8000
Peak power (10 sec) (W)	8000	10000	8000	10000	12000	16000
Cont. output power at 40°C (W)	2800	3600	2800	3700	4200	5600
Surge	300%					
Maximum efficiency	94%		96%			
Zero load power (W)	18	23	17	19	20	26

Charger

Charge voltage 'absorption' (VDC)	28.8		57.6			
Charge voltage 'float' (VDC)	27.6		55.2			
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded / Traction / TBB SUPER-L					
Max AC charge current (A)	120	150	55	70	80	110
Temperature compensation	Yes					

General Data

Main Output (AC Out1) Current (A)	50
Auxiliary Output (AC Out2) Current (A)	32
Transfer time	0ms (< 15ms in Weak AC source Mode)
Remote on-off	Yes
Programmable relay	2x
Protection	a) output short circuit, b) overload, c) battery voltage too high, d) battery voltage too low, e) temperature too high, f) input voltage out of range, g) input voltage ripple too high, h) Fan block
CAN Bus communication port	For parallel and three phase operation, remote monitoring and system integration
General purpose com. Port	RS485 (GPRS, WLAN optional with kinergy)
Operating temperature range	-20˚C~65˚C
Relative humidity in operation	95% without condensation
Altitude (m)	2000

Mechanical Data

Dimension (mm) (max)	530x285x185					
Net Weight (kg)	33	36	30	33	35	40
Cooling	Forced fan					
Protection category	IP20					

Standard

Safety	EN60950-1
EMC	EN61000-6-2, EN61000-6-4, EN61000-3-11, EN61000-3-12



Model No.	CK-II 2.0M	CK-II 3.0M	CK-II 2.0S	CK-II 3.0S
Power topology	Transformer based			
Power assist	Yes			
Feed-in to grid	Yes			
AC input voltage range (VAC)	175~265			
AC input Frequency range (Hz)	45~65			
AC input Current (transfer switch) (A)	32			

Inverter

Nominal battery voltage (VDC)	24		48	
Input voltage range (VDC)	21~34		42~68	
AC output voltage(VAC)	220/230/240 ± 2%			
AC output Frequency(Hz)	50/60 ± 0.1%			
Harmonic distortion	< 2%			
Load Power factor	1.0			
Cont. output power at 25°C (VA)	2000	3000	2000	3000
Cont. output power at 25°C (W)	1600	2500	1600	2500
Peak power (30min) (W)	2000	3000	2000	3000
Peak power (10 sec) (W)	4000	6000	4000	6000
Cont. output power at 40°C (W)	1500	2200	1500	2200
Surge	300%			
Maximum efficiency	94%		95%	
Zero load power (W)	11	14	11	14

Charger

Charge voltage 'absorption' (VDC)	28.8		57.6	
Charge voltage 'float' (VDC)	27.6		55.2	
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded / Traction / TBB SUPER-L			
Max AC charge current (A)	50	80	25	40
Temperature compensation	Yes			

General Data

Main Output (AC Out1) Current (A)	32
Auxiliary Output (AC Out2) Current (A)	32
Transfer time	0ms (< 15ms in Weak AC source Mode)
Remote on-off	Yes
Programmable relay	2x
Protection	a) output short circuit, b) overload, c) battery voltage too high, d) battery voltage too low, e) temperature too high, f) input voltage out of range, g) input voltage ripple too high, h) Fan block
CAN Bus communication port	For parallel and three phase operation, remote monitoring and system integration
General purpose com. Port	RS485 (GPRS,WLAN optional with kinergy)
Operating temperature range	-20˚C~65˚C
Relative humidity in operation	95% without condensation
Altitude (m)	2000

Mechanical Data

Dimension (mm) (max)	499x272x145			
Net Weight (kg)	16	19	16	19
Cooling	Forced fan			
Protection category	IP21			

Standard

Safety	EN-IEC 62477-1
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12



Model No.	CM2.0L	CM3.0L
Power topology	Transformer based	
Power assist	Yes	
AC input voltage range (VAC)	175~265	
AC input Frequency range (Hz)	45~65	
AC input Current (transfer switch) (A)	32	

Inverter

Nominal battery voltage (VDC)	12	
Input voltage range (VDC)	10.5~17	
AC output voltage(VAC)	220/230/240 ± 2%	
AC output Frequency(Hz)	50/60 ± 0.1%	
Harmonic distortion	< 2%	
Load Power factor	1.0	
Cont. output power at 25°C (VA)	2000	3000
Cont. output power at 25°C (W)	2000	3000
Peak power (30min) (W)	2200	3200
Peak power (10 sec) (W)	2800	4200
Peak power (3 sec) (W)	4000	6000
Cont. output power at 40°C (W)	1800	2700
Surge	300%	
Maximum efficiency	93%	
Zero load power (W)	12	16

Charger

Charge voltage 'absorption' (VDC)	14.4	
Charge voltage 'float' (VDC)	13.8	
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded	
Max AC charge current (A)	120	180
Temperature compensation	Yes	

General Data

Main Output (AC Out1) Current (A)	32
Transfer time	0ms (< 15ms in Weak AC source Mode)
Remote on-off	Yes
Programmable relay	2x
Protection	a) output short circuit, b) overload, c) battery voltage too high, d) battery voltage too low, e) temperature too high, f) input voltage out of range, g) input voltage ripple too high, h) Fan block
General purpose com. Port	RS485 (GPRS,WLAN optional with Kinergy)
Operating temperature range	-20˚C~65˚C
Relative humidity in operation	95% without condensation
Altitude (m)	2000

Mechanical Data

Dimension (mm) (max)	513x245x135	
Net Weight (kg)	17	21
Cooling	Forced fan	
Protection category	IP20	

Standard

Safety	EN-IEC 62477-1
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12

* CM2.0L and CM3.0L do not support the following features: AC coupling system, DC coupling system and solar hybrid system, parallel and three phase capability, self-consumption system, AGS function and AC out2.