



RESIDENTIAL
OFF GRID

CE1/2/3/5KW-S-OFF

PRODUCT MODEL	CE1KW-S-OFF	CE2KW-S-OFF	CE3KW-S-OFF	CE5KW-S-OFF
PV System Size Nominal Inverter Power (KWP)	0.8	1.5	3	5

PRODUCT MODEL SPECIFICATION(*Mono)

Power (W)	410
Vmp (V)	31.45
Voc (V)	37.32
Isc (A)	13.95
Imp (A)	13.04
Dimensions (L*W*H) (mm)	1722*1134*35
PV Module Weight (kg)	21.5
Certifications	CE / TUV (IEC 61215 & IEC 61730)

*Polycrystalline PV modules also available up on request

INVERTER SPECIFICATIONS

	0.8	1.5	3	5
Inverter Continuous Power (W)	0.8	1.5	3	5
Peak Power (W)	2400	4500	9000	15000
Adjustable Model	MPPT+Inverter / AC+Inverter / MPPT+AC+Inverter			
AC Voltage (V)	180-250 (Adjustable)			
AC Frequency (Hz)	50 / 60 (Adjustable)			
Battery Voltage (V)	24	48	96	96
MPPT Charge Current (A)	50	50	50	50
PV Input Power (W)	≤ 1440	≤ 2880	≤ 5760	≤ 5760
PV Voltage Range (V)	30-90	70-150	150-300	150-300
AC Charge Current (A)	10	10	10	10
Maximum Charge Current (A)	20	20	20	20
Wave Form	Pure Sine Wave			
Display Content	PV status, battery capacity, AC Input voltage, AC output voltage, load, running status			
Dimensions (L*W*D) (mm)	420*145*215	500*195*345	500*240*490	500*240*490
Inverter Weight (kg)	10	19	35	45

BATTERY BANK SPECIFICATIONS

	Lead Acid Gel (VRLA)			
Battery Type	Lead Acid Gel (VRLA)			
Battery Voltage (V)	12	12	12	12
Battery Bank Voltage (V)	24	48	96	96
Battery Capacity (Ah)	12V260AH	12V200AH	12V200AH	12V200AH
Battery Bank Capacity (Ah)	260	200	200	400
Battery Bank Power-Total (Wh)	6240	9600	19200	38400
Battery Bank Power-Total (Wh)*0.7 (DOD)	4368	6720	13440	26880
Battery Dimensions (L*W*H) (mm)	520*268*225	522*240*240	522*240*240	522*240*240
Battery Weight (kg)	74	60	60	60
Full Cycles (70% DOD)	700			
Total Batteries - *storage can be increased	2	4	8	16
Connection	Series			Series+Parallel
Certifications	CE / RU / ISO14001 / OHSAS18001			

BOS

Main Disconnect Box (or Breakers)	YES			
*PV Cables (PV 1*4mm ²) (m)	100	200	300	300
*Ground Wire (1*16mm ²) (m)	10	20	30	30

*Extra wire is available up request

SYSTEM LAYOUT

Number of Modules	3	4	8	12
Number of Inverters	1			
PV Array Surface Area (m ²)	7.16	10.74	21.47	32.21
PV Array Weight (kg)	70	105	210	315
PV Module	No. of PV Modules / String	3	3	6
	Total Strings	2	2	2
String	String Voc (V)	79.4	119.1	238.2
	String Vmp (V)	64.2	96.3	192.6
Configuration	String Imp (A)	9.35	9.35	9.35

PRODUCTION ESTIMATES (KWh AC)

*Projectd Yearly Output at 4 PSH / Day	3.84	5.76	11.52	17.28
*Projectd Yearly Output at 5 PSH / Day	4.80	7.20	14.40	21.60
*Projectd Yearly Output at 6 PSH / Day	5.76	8.64	17.28	25.92

*Based on 80% system efficiency (formula = DC Power * PSH / Day * System Efficiency) (PSH = Peak Sunshine Hours)