

PRODUCT MODEL	CE10KW-T-OFF	CE20KW-T-OFF	CE30KW-T-OFF	CE40KW-T-OFF	CE50KW-T-OFF	CE60KW-T-OFF
PV System Size Nominal Inverter Power (KWP)	10	20	30	40	50	60

**PRODUCT MODEL SPECIFICATION(\*Mono)**

Power (W)	300					
Vmp (V)	32.1					
Voc (V)	39.7					
Isc (A)	9.65					
Imp (A)	9.35					
Dimensions (L*W*H) (mm)	1640*992*35					
PV Module Weight (kg)	17.5					
Certifications	CE / TUV (IEC 61215 & IEC 61730)					

\*Polycrystalline PV modules also available up on request

**INVERTER SPECIFICATIONS**

Inverter Continuous Power (KVA / KW)	10 / 8	20 / 16	30 / 24	40 / 32	50 / 40	60 / 48
Peak Power (KVA / KW)	30 / 24	60 / 48	90 / 72	120 / 96	150 / 120	180 / 144
Over Load Capacity	105%-110%, 10mins; 110%-125%, 1 min; >125%, 10s					
AC Voltage (V)	3 / N / PE, 380 / 400 / 415					
AC Frequency (Hz)	50 / 60 (Adjustable)					
Battery Voltage (V)	220	220	220	220	348	348
MPPT Charge Current (A)	45	2*45	3*45	4*45	5*45	5*45
PV Input Power (W)	11000	22000	33000	44000	80000	80000
PV Voltage Range (V)	250-450	250-450	250-450	420-650	420-650	420-650
Maximum PV Array Open Circuit Voltage	460	460	460	660	660	660
AC Nominal Voltage / Voltage Range (V)	380 / 400 / 415 ± 20%					
AC Grid Frequency Range (Hz)	50 / 60, -5HZ — 5HZ					
Dimensions (W*H*D) (mm)	560*460*1040	560*460*1040	600*550*1450	600*550*1450	600*600*1600	600*600*1600
Inverter Weight (kg)	160	170	230	260	300	330
Certifications	TUV, CE, Enel-GUIDA, AS4777, CEC,CSA, BDEW					

**BATTERY BANK SPECIFICATIONS**

Battery Type	Lead Acid Gel (VRLA)					
Battery Voltage (V)	12	12	2	2	12	2
Battery Bank Voltage (V)	220	220	220	220	348	348
Battery Capacity (Ah)	12V100	12V150	2V200	2V1000	12V260	2V1000
Battery Bank Capacity (Ah)	100	150	200	1000	260	1000
Battery Bank Power-Total (Wh)	22000	33000	44000	220000	90480	348000
Battery Bank Power-Total (Wh)*0.7 (DOD)	15400	23100	30800	154000	63336	243600
Battery Dimensions (L*W*H) (mm)	328*172*222	483*170*240	172.5*111*366	475*174*365	520*268*225	475*174*365
Battery Weight (kg)	30	44.5	14	62	74	62
Full Cycles (70% DOD)	700					
Total Batteries - *storage can be increased	18	18	110	110	29	174
Connection	Series					
Certifications	CE / RU / ISO14001 / OHSAS18001					

**BOS**

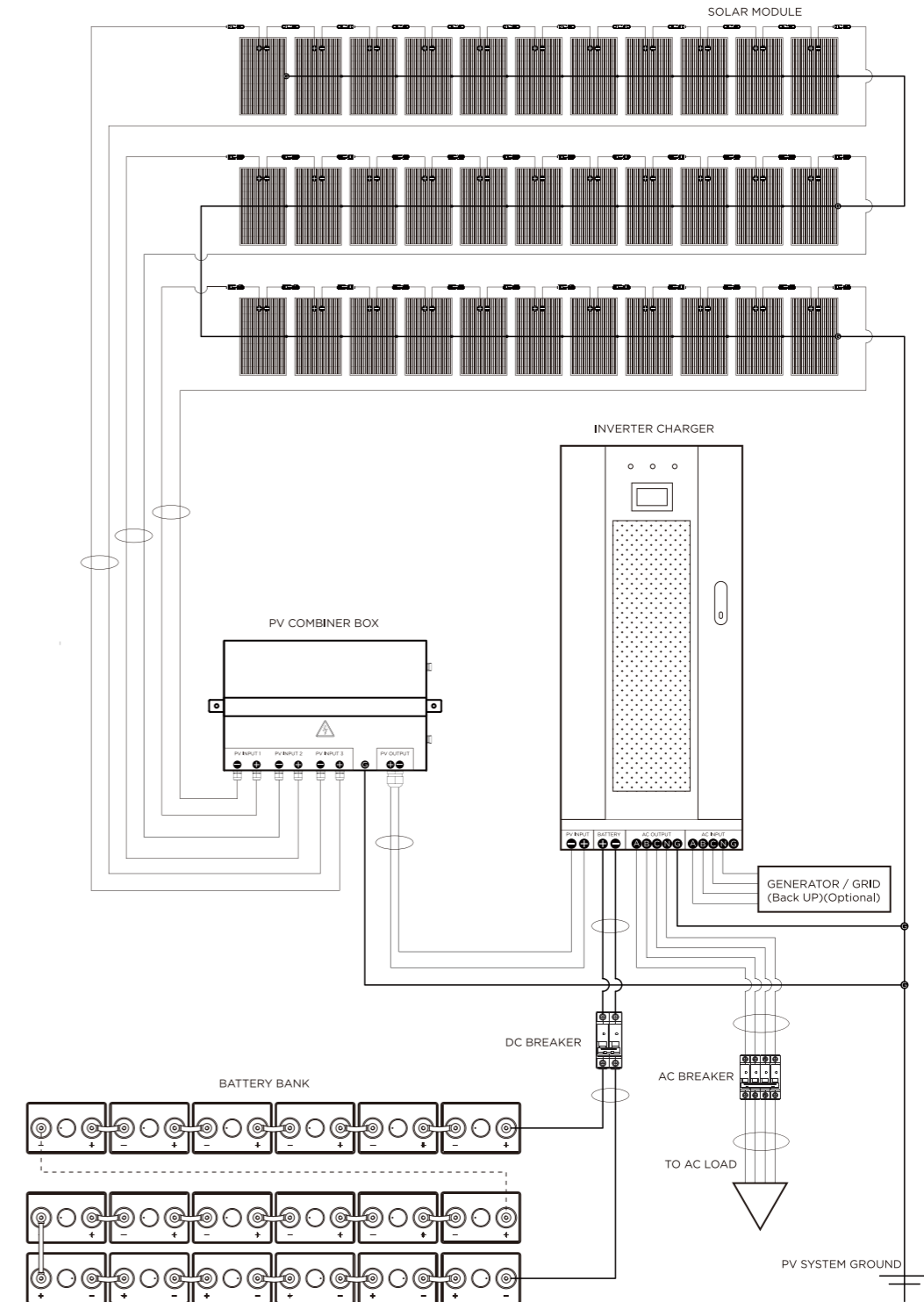
PV Combiner Box / Battery Breaker	1-3 in 1 out / 1	2-3 in 1 out / 1	3-3 in 1 out / 1	4-3 in 1 out / 1	4-3 in 1 out / 1	5-3 in 1 out / 1
*PV Cables (PV 1*4mm <sup>2</sup> ) (m)	300	600	800	900	1000	1500
*Battery Wire (m)	RVV/BV 1*16mm <sup>2</sup> -20m	RVV/BV 1*35mm <sup>2</sup> -20m	RVV/BV 1*50mm <sup>2</sup> -20m	RVV/BV 1*70mm <sup>2</sup> -20m	RVV/BV 1*50mm <sup>2</sup> -20m	RVV/BV 1*70mm <sup>2</sup> -20m
*Ground Wire (1*16mm <sup>2</sup> ) (m)	100	200	300	400	500	600
Battery Bank Rack	Customized					
AC Cables	Y3*6mm <sup>2</sup> +2 -20m	Y3*10mm <sup>2</sup> +2 -20m	3*10mm <sup>2</sup> +2 -20m	3*16mm <sup>2</sup> -20m	3*25mm <sup>2</sup> -20m	3*35mm <sup>2</sup> -20m

\*Extra wire is available up request

**SYSTEM LAYOUT**

Number of Modules	33	66	99	132	180	225	
Number of Inverters	1						
PV Array Surface Area (m <sup>2</sup> )	59.06	118.11	177.17	236.22	322.12	402.65	
PV Array Weight (kg)	577.5	1155	1732.5	2310	3150	3937.5	
PV Module	No. of PV Modules / String	11	11	11	15	15	
	Total Strings	3	6	9	12	12	15
String Configuration	String Voc (V)	436.7	436.7	436.7	436.7	595.5	
	String Vmp (V)	353.1	353.1	353.1	353.1	481.5	
	String Imp (A)	9.35					

**CE10KW-T-OFF**



**PRODUCTION ESTIMATES (KWh AC)**

*Projectd Yearly Output at 4 PSH / Day	31.68	48.00	63.36
*Projectd Yearly Output at 5 PSH / Day	39.60	60.00	79.20
*Projectd Yearly Output at 6 PSH / Day	47.52	72.00	95.04

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

**SYSTEM OPTIONS**

Monitoring Device	RS232
PV Module Type	Mono or Poly
Monitoring System Types	Metal Roof / Tile Roof / Flat Concrete Roof / Ground
AC Back Up Input	Utility Grid / Power Generator
Battery	12V Gel / 2V Gel / Tubular Gel (OpzV)