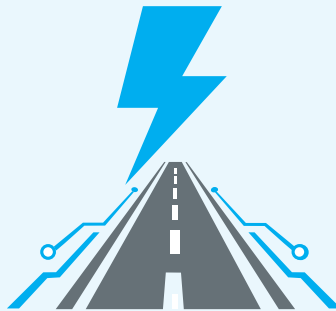


BIA

HIGH-SPEED EV CHARGER
150 kW Column Type DC Charger

*'Unlocking Operational Efficiency with High-Speed EV Infrastructure'
with Zero Grid Upgrades*



When Energy Crisis Looms..... BIA EV charger provides stability
powered by solar pv

CHARGE YOUR EVs IN 30 MINUTES*



Powerful - Faster charging with efficiency

- Up to 150 kW of fast charging
- Fast DC-DC Charging mode



Smart Advertising & Communication Portal

Additional revenue to boost ROI

- Display shows charging related info
- Built in display screen offer advertising potential



High Reliability - Worry Free Charging

- Compatible with all EVs
- High charging success rate
- Innovative Technology



Solar - to - Battery Charging

Connect to a PV source to charge batteries



Scalable Solution for high power heavy vehicle charging



Weather Resistant



Smart Cloud Portal & OCPP Capability



Remote Update & Diagnostics



Smart Charging



98% Charging Efficiency



Single plug CCS2 gun



Support APP, RFID Card, Credit Card, Mobile Payment

* depends on the ev charge capability

100 kWh - 150 kW Column Type DC Charger

No	Description	Specification	Remarks
1	Charging Gun Output power (kW)	150 kW (2 Guns)	FlexibleIntelligent Allocation
2	Charging Gun Output current (A)	0-300A (CCS2)	
3	Charging Gun Output voltage Range (Vdc)	200 ~ 1000	
4	DC Charging gun standard	CCS 2 - 1 Gun	
5	DC Charging gun cable length	5 M	
6	Charging mode	Touch start	Support OCPP1.6J
7	Operating temperature range (°C)	-20 + 50	
8	Storage temperature range (°C)	-20 + 60	
9	Protection level	IP54	
10	Thermal management	Charging module air cooling	
11	Display screen	7 inch user interface screen & 27 inch Advertising screen	
12	Unit Size	1300mm x 1000mm x 2000mm	
13	Active safety	Insulation detection, SOC, temperature, fire, voltage, emergency stop	
14	Weight (kg)	1500	
Power-pack information			
15	Electricity (kWh)	100.69	
16	Cell Type	Supercapacitor	
17	Battery Pack Size	1060 wide x 660 deep x 1000 high	
18	Nominal Voltage (Vdc)	599.4 V	
19	Nominal Capacity (Vdc)	168 Ah	
20	Min Voltage (Vdc)	453.6 V	
21	Max Voltage (Vdc)	680.4 V	
22	Charging current (Amps)	80 A (1C)	
23	Discharging current (Amps)	300 A (3C)	
Other parameters (Input Characteristics)			
	Battery recharged mode DC recharge AC recharge	N/A (40kW @ 63A) ; (69kW @100Amp) or (86 kW @125 Amp - Europe only)	CCS2 DC charging Socket AC 3-PHASE 415 V
	Full discharge time (100.69 kwh)	2.5 hours	IEC 62916 -2 IEC62916-3
	Discharge time (100.69 kWh)	24 minutes	
	Recharged time by DC charger(50kW)	N/A	
	Recharged time by AC 3-phase (43 kW)	2.3 hours	
Other parameters			
	Warranty	5 years	

specification subject to change without notice

HYBRID INVERTER SPECIFICATION

Technical Data

www.deyeinverter.com

Model	SUN-29.9K-SG01HP3 -AU-BM3	SUN-30K-SG01HP3 -AU-BM3	SUN-35K-SG01HP3 -AU-BM3	SUN-40K-SG01HP3 -AU-BM4	SUN-50K-SG01HP3 -AU-BM4
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-800				
Max. Charging Current (A)	50+50				
Max. Discharging Current (A)	50+50				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	2				
PV String Input Data					
Max. PV access power(W)	59800	60000	70000	80000	100000
Max. PV Input Power (W)	44850	45000	52500	60000	75000
Max. PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	29900	30000	35000	40000	50000
Max. AC Input/Output Apparent Power (VA)	29900	30000	35000	40000	50000
Rated AC Input/Output Current (A)	43.4	43.5	50.8	58	72.5
Max. AC Input/Output Current (A)	43.4	43.5	50.8	58	72.5
Max. Continuous AC Passthrough (grid to load) (A)	200				
Peak Power (off-grid) (W)	1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	230/400V 240/415V 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50Hz/45Hz-55Hz				
Grid Connection Form	3L+N+PE				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Insulation Impedance Detection, Arc Fault Circuit Interrupter (optional),DC Switch, Anti-islanding Protection(Active Frequency shift) , Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	WIFI,RS485,CAN				
LCD/LED Display	LCD				
General Data					
Operating Temperature Range (°C)	-40°C to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	≤65				
Ingress Protection(IP) Rating	IP 65				
Protection Level	Class I				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	527×894×294 (Excluding Connectors and Brackets)				
Weight (kg)	80				
Type of Cooling	Intelligent Air Cooling				
Warranty	10 Years				
Grid Regulation	AS/NZS 4777.2				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				



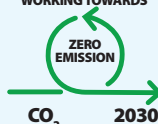
CRYSTAL SOLAR ENERGY PTY.LTD.

RENEWABLE ENERGY POWER SOLUTIONS

"Engineering the Future of Integrated Energy"



WORKING TOWARDS



1300 756 634

email: solar@crystalsolarenergy.com.au

web: www.crystalsolarenergy.com.au

157 - 163 Atlantic Drive
Keysborough, Victoria 3173