



Solar for More Smart Living

## PRODUCT CATALOGUE



**LED**  
LIGHTING



Celebrating "Make in India" Initiative



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**Solar for More Smart Living**

## ABOUT US

**Confire India Industries** is a leading fast moving electronics, electrical & agricultural goods company a major solar lighting product, LED Lighting Solar products Like **OCTAGONAL POLE & HIGH MAST, SEMI INTEGRATED SOLAR STREET LIGHT (TWO IN ONE SOLAR STREET LIGHT), INTEGRATED SOLAR STREET LIGHT (ALL IN ONE SOLAR STREET LIGHT), SOLAR LED STREET LIGHT LUMINAIRE, AC LED STREET LIGHT LUMINAIRE, Solar Charge Controller & SOLAR POWER PLANTS MANUFACTURER** with strong all india presence. We offer a simple and cost effective solution for a greener, more efficient, renewable energy source. We are committed to providing a superior product, timely delivery and exceptional after sales service. As a manufacturer and trader of solar products, we ensure that our clients receive an efficiently engineered product along with excellent pricing. We are dedicated to quality, innovation and improved efficiency as We pursue solar energy expansion around the world. **Confire India Industries** is a global company, with customers in India and abroad. Our corporate headquarters is located in Ghaziabad and we own and operate a state - of - the - art manufacturing facility in India. Our management team has a proven track record of success in business, with decades of business experience. There is a plethora of other off-grid solar products in our horizon along with solar photovoltaic modules. **Confire India Industries** also deals in **Solar Lanterns, Solar Home Lighting System, Solar street lights, Solar All-in-One Streetlights (newly innovated product), Solar Charge controllers, solar wires and solar LED bulbs.** We boast of prompt after sales service, which gives an edge over our competitors. We are equipped with a sound and world-class infrastructure. Our team consists of experienced and dedicated professionals having years of experience in this field. The quality, customer satisfaction and on-time delivery coupled with the most affordable cost has fetched us a reputable status in the market. "We strive to manage the management of work, work smart, keep innovation and produce the best at the most efficient pricing." Now Currently over 95 % if its product offerings are energy efficient and manufactured in India.





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**SEMI INTEGRATED  
(TWO IN ONE) SLS**



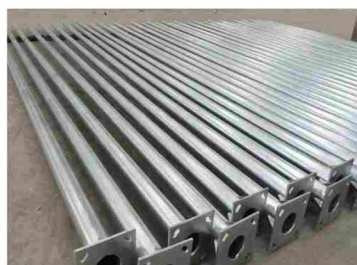
**INTEGRATED  
(ALL IN ONE) SLS**



**SOLAR  
HIGH MAST LIGHTS**



**SOLAR  
WATER PUMP**



**OCTAGONAL POLE**



**SOLAR  
HIGH MAST POLE**



**SOLAR POWER PLANT &  
STRUCTURE**



**AC STREET LIGHT**

# SOLAR SEMI INTEGRATED (TWO IN ONE) STREET LIGHT SYSTEM



Available: 9W-80W



## Technical Specifications: Solar Semi Integrated (Two in One) Street Light System

Model No.	CIITIO9W	CIITIO12W	CIITIO15W	CIITIO18W	CIITIO24W	CIITIO40W	CIITIO60W
Solar PV Module (Polycrystalline/Monocrystalline)	50Wp	60Wp		75Wp	100Wp		150Wp
LED Light	9W LED	12W LED	15W LED	18W LED	24W LED	40W LED	60W LED
Battery Capacity (LiFe-P04/Lithium-ion Battery)		12.8V 15AH		12.8V 18AH		12.8V 24AH	12.8V 30AH
Motion Sensor*	PIR Motion Sensor(10m Range)						
Lumen Output \Watt	125Lumen / W						
Operation	Light will glow in full bright mode for first 4 hours, After 4 hours, Light will Dim to 33% Power and motion sensor will activate for detection of motion. If a human motion is detected in 10M area around the light, It will glow in full mode for 2 minutes, After that it will again come to 33% power.						
LED Driver Efficiency	> 93.5%						
LED Light Operating Voltage	11-16V						
Load Cutt-Off Voltage for Battery Deep Discharge Protection	11.2 volt $\pm$ 1						
Space Between pole to pole	10mtr to 15mtr						
Pole	G.I. Galvanized (5m + 1m) Pole						
Light Backup Time	Full Night						
Luminaire Weight	2.5- 3Kg Approx						
Product Dimension (L x W x H)	420 x 210 x 90 (mm)						
Over Charge Protection	Provided						
Deep discharge protection / Battery reverse Protection	Provided						
load open & short protection	Provided						
Indication on Charging	Green LED Glow						
Indication on Battery Low	Red LED Glow						
Indication on Higher Cutt Off	Green LED Blinking						
Reverse Current Flow protection	Provided						
Temperature Compensation	Provided						
Packaging Contents	Integrated light with SPV, Mounting bracket,U-clamp, Nut-bolt						
Product Warranty	5 Years Warranty complete System (Battery warranty 5 Year / **)						

Note : Also available on demand model 70W, 80W and We can increase the Battery Wh & PV Module Watt  
Extra Features street light with camera, remote control, GPS system control, WiFi.

\* Optional \*\* More than 5Years warranty on customers demand.



# SOLAR INTEGRATED (ALL IN ONE) STREET LIGHT SYSTEM



Available: 9W-80W



## Technical Specifications: Solar Integrated (All in One) Street Light System


Model No.	CIIAIO9W	CIIAIO12W	CIIAIO15W	CIIAIO30W	CIIAIO40W	CIIAIO60W
Solar PV Module (Polycrystalline/Monocrystalline)	50Wp	60Wp		75Wp	100Wp	150Wp
LED Light	9W LED	12W LED	15W LED	18W   24W	40W LED	60W LED
Battery Capacity (LiFe-P04/ Lithium-ion Battery)	12.8V 15AH			12.8V 18AH	12.8V 24AH	12.8V 30AH
Motion Sensor*	PIR Motion Sensor(10m Range)					
Lumen Output \Watt	125 Lumen / W					
Operation	Light will glow in full bright mode for first 4 hours, After 4 hours, Light will Dim to 33% Power and motion sensor will activate for detection of motion. If a human motion is detected in 10M area around the light, It will glow in full mode for 2 minutes, After that it will again come to 33% power.					
LED Driver Efficiency	> 93.5%					
LED Light Operating Voltage Range	11-16V					
Load Cutt-Off Voltage for Battery Deep Discharge Protection	11.2 volt $\pm$ 1					
Space Between pole to pole	10mtr to 15mtr					
Pole	G.I. Galvanized (5m + 1m) Pole					
Light Backup Time	Full Night					
AIO Weight without Pole	8-10 Kg Approx					
Product Dimension (L x W x H)	800 x 306x60 mm					
Over Charge Protection	Provided					
Deep discharge protection / Battery reverse Protection	Provided					
load open & short protection	Provided					
Indication on Charging	Green LED Glow					
Indication on Battery Low	Red LED Glow					
Indication on Higher Cutt Off	Green LED Blinking					
Reverse Current Flow protection	Provided					
Temperature Compensation	Provided					
Packaging Contents	Integrated light with SPV, Mounting bracket,U-clamp, Nut-bolt					
Product Warranty	5 Years Warranty complete System (Battery warranty 5 Year / **)					

Note : Also available on demand model 70W, 80W and We can increase the Battery Wh & PV Module Watt  
Extra Features street light with camera, remote control, GPS system control, WiFi.

\* Optional \*\* More than 5Years warranty on customers demand.



## Technical Specifications: Solar Street Light System

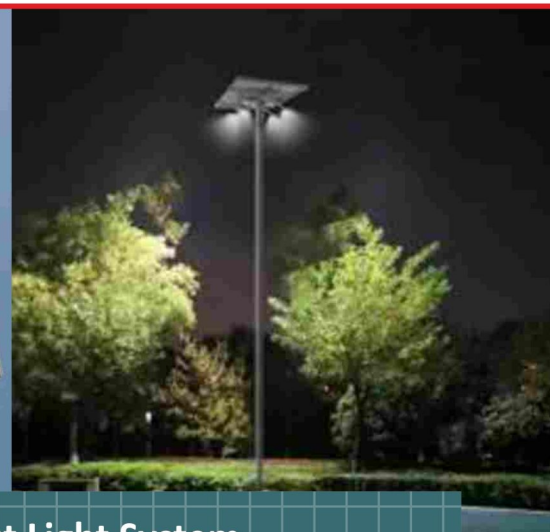
	Model No.	CISSL7W	CISSL9W	CISSL12W	CISSL18W	CISSL24W	CISSL30W	CISSL43W	CISSL56W	CISSL80W
	Voltage	12V	12V	12V	12V	12V	12V	12V	24V	24V
	Charger Type	PWM	PWM	PWM	PWM	PWM	PWM	MPPT	MPPT	MPPT
	Solar Module	40 Wp	40 Wp	75 Wp	100 Wp	120 Wp	150 Wp	250 Wp	2x200 Wp	2x350 Wp
	Cell	High efficiency Multi Crystalline silicon cells / Mono Crystalline silicon cells								
	Rigidity	Designed to with stand tough environment conditions								
	Battery & Battery Box									
	Battery Capacity @ C/10	40 Ah	40 Ah	75 Ah	100 Ah	120 Ah	150 Ah	200 Ah	2x100 Ah	2x200 Ah
	Charging Efficiency	<96%								
	Self Discharge	<2% per month at 27°C								
	Battery Box Casing	100% Acid Proof / Polymer Battery Box / GI Metal Box								
	LED Luminiare									
	Driver Efficiency	90%	91.6%	90.8%	90.2%	90.2%	93.1%	94.2%	94.2%	94.2%
	World Class LEDs	from Japan/Germany								
	Lumen Efficiency / Watt	> 120 Lumen/w								
	Rated Lamp Life (Avg.) hrs	More than 50,000 hrs								
	IP Class	IP 65								
	Humidity	95%								
	Power Factor	01								
	Operating Temperature	-15°C to + 80°C								
	Dimmer	Programmable (Micro-Controller Based) / Optional								
	Autonomy	3 Days								
	Pole & Material Used	(5m + 1m) G.I. Galvanized Pole								
	Protection	Open Circuit, Short Circuit Protection for Lamp, Over Charge & Deep Discharge Over load, Reverse polarity, Reverse Flow								
	Indicators	Green Charging, Red Low Battery								
	Product Warranty	5 Years Warranty complete System / **								

Note : Also available on demand model 100W and We can increase the Battery Wh & PV Module Watt

Extra Features street light with camera, remote control, GPS system control, WiFi.

\*\* 5 Years warranty on customers demand.





## Technical Specifications: Solar High Mast Light System

Model No.	CIISHM72W	CIISHM96W	CIISHM120W	CIISHM144W
LED Luminaire Type	4X18W LED	4X24W LED	4X30W LED	4X36W LED
Solar PV Module (Power)	4X100 Wp	4X125 Wp	4X200 Wp	4X225 Wp
Battery Capacity @ C/10	4X75 AH	4X100 AH	4X120 AH	4X150 AH
Pole	G.I. Galvanized MS (7meter)		G.I. Galvanized MS (7meter + 1 meter)	
Voltage	12V			
Charging Type	PWM			
Cell	High efficiency Multi Crystalline silicon cells			
Rigidity	Designed to with stand tough environment conditions			
Battery Box	100% Acid Proof / Polymer Battery Box / Metal Box			
Charging Efficiency	< 96%			
Self Discharge	< 2% per month at 27°C			
LED Luminaire	As per requirement			
Driver Efficiency	92%			
World Class LEDs	from Japan/Germany			
Lumen Efficiency / Watt	> 120 Lumen/w			
Rated Lamp Life (Avg.) hrs	More than 50,000 hrs			
IP Class	IP 65/67			
Humidity	95%			
Power Factor	01			
Operating Temperature	-15°C to + 80°C			
Dimmer	Programmable (Micro-Controller Based)			
Autonomy	3 Days			
Protection	Open Circuit, Short Circuit Protection for Lamp, Over Charge & Deep Discharge Over load, Reverse polarity, Reverse Flow			
Indicators	Green Charging, Red Low Battery			
Product Warranty	5 Years Warranty complete System / **			

Note : Also available on demand model 300W and We can increase the Battery Wh & PV Module Watt  
Extra Features street light with camera, remote control, GPS system control, WiFi.

\*\* More than 5 Years warranty on customers demand.



(Philips Type)  
6 to 14 watt



(Normal)  
18 to 45 watt



(COB Type)  
12 to 50 watt



(Frame Type)  
45 to 120 watt

## Technical Specifications: Solar LED Street Light Luminaire

Model No.	CIISLS7W	CIISLS9W	CIISLS12W	CIISLS18W	CIISLS24W	CIISLS30W	CIISLS43W	CIISLS56W	CIISLS120W
Voltage	12V	12V	12V	12V	12V	12V	12V	24V	24V
Solar Module*	40 Wp	40 Wp	75 Wp	100 Wp	120 Wp	150 Wp	250 Wp	2x200 Wp	4x350 Wp
Battery Capacity* @ C/10	40 Ah	40 Ah	75 Ah	100 Ah	120 Ah	150 Ah	150 Ah	2x100 Ah	4x200 Ah
Charger Type	PWM	PWM	PWM	PWM	PWM	PWM	PWM	MPPT	MPPT
Driver Efficiency	90%	91.6%	90.8%	90.2%	90.2%	93.1%	94.2%	94.2%	94.2%
Charging Efficiency	< 96%								
Idle Current	< 10 mA								
LED Color Temperature	5700K to 6500K								
Lumen Efficiency / Watt	> 120 Lumen / W								
Rated Lamp Life (Avg.) hrs	More than 50,000 hrs								
World Class LEDs / Make	from Japan, Germany / Osram, Edition LED								
Beam Angle	120° LED Beam Angle								
Power Factor	01								
Humidity	95%								
Indicators	Green Charging, Red Low Battery								
Protection	Open Circuit, Short Circuit Protection for Lamp, Over Charge & Deep Discharge Over load, Reverse polarity, Reverse Flow								
Dusk to Down (Automatic - on/off)	Provided								
Operating Temperature	-15°C to + 80°C								
Dimmer	Programmable (Micro-Controller Based) / Optional								
Weight (kg)	1.5 (approx)							2.1 (approx)	2.8 (approx)
Rigidity	Designed to with stand tough environment conditions								
Dimension	380 x 140 (mm)						380 x 170 (mm)		420 x 190
Mounting & Maintenance	@ Suitable for side entry mounting with bracket arm {ID Ø38mm (max).}						@ {ID Ø50mm (max).}		
IP Class	IP 65								
Product Warranty	2 Years / **								

Note : Also available on demand model 140W, 180W  
Extra Features street light with camera, remote control, GPS system control, WiFi.  
\* Optional \*\*2 Years warranty on customers demand.





## Technical Specifications: AC LED Street Light / Flood Light

Model	CHIALS12	CHIALS18	CHIALS25	CHIALS36	CHIALS50	CHIALS60	CHIALS72	CHIALS80	CHIALS120	CHIALS350
Power Consumption	12 Watt	18 Watt	25 Watt	36 Watt	50 Watt	60 Watt	72 Watt	90 Watt	120 Watt	350 Watt
LDR or Dusk to Dawn	Optional									
Nominal Voltage (V)	120-270V AC, 50Hz									
Power Factor	≥.985@240v									
Control Gear	In-built electronic driver with APFC & THD≤10% Output Short-Circuit, Over Voltage, Surge & Phase to Phase Protection									
LED Color Temperature	5700K-6500K									
Beam Angle	120° LED Beam Angle			120° LED Beam Angle			120° LED Beam Angle			
Optical Cover	High Efficiency Toughened Glass Cover for Extra Protection									
Lumens Output	≥110 Lumen / W									
Housing Material	Aluminum Pressure Die Cast ADC 12 Housing (Heat Sink) for better heat transmission									
Dimension	380mm X 140mm			380mm X 170mm			450mm X 210mm		490mm X 260mm	
Weight	1.5 Kg.			2.2 Kg.			2.2 Kg.		3.2 Kg.	
Protection Rating	IP 65									
Mounting & Maintenance	Suitable for side entry mounting with bracket arm ID Ø34mm (max).			Suitable for side entry mounting with bracket arm ID Ø45mm (max).			Suitable for side entry mounting with bracket arm ID Ø54mm (max).			
Product Warranty	2 Years/ **									

Note : Also available on demand model 450W, 500W & 600W

Extra Features street light with camera, remote control, GPS system control, WiFi.

\*\* 2 Years warranty on customers demand.





## Technical Specifications: Solar Water Pump & Controller (VFD)

Motor HP	1 HP	2 HP	3 HP	5 HP
Voltage	72 Vdc, EC, PWM	110 Vdc, EC, PWM	220 Vdc, EC, PWM	380 Vdc, EC, PWM
Current	8A	10A	10A	12A
Type	4 Pole BLDC Motor, Fully SS, IP68	4 Pole BLDC Motor, Fully SS, Ip68	4 Pole BLDC Motor, Fully SS, Ip68	4 Pole BLDC Motor, Fully SS, Ip68
Size	V4-Water Filled	V4-Water Filled	V4-Water Filled	V4-Water Filled
Head in Mtr	30   50   70   90	30   50   70   100	30   50   70   100	30   50   70   100
Discharge in LPM	45   33   24   18	150   90   65   35	200   130   90   60	350   240   150   90
Delivery	1.5"   1.25"   1.25"	2"   1.5"   1.25"	2"   1.5"	2.5"   2"   1.5"

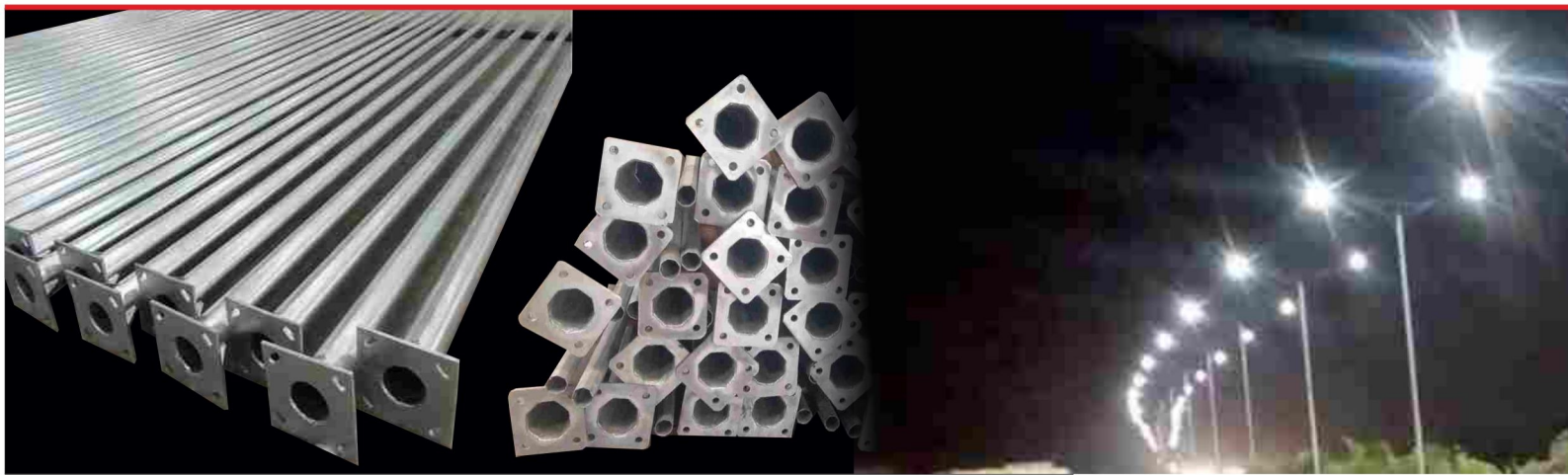
## Technical Specifications: Solar BLDC Pump Controller

Motor HP	1 HP	2 HP	3 HP	5 HP	7.5 HP	10 HP
Solar Panel Configuration	325 Wx3 Nos. All in series	325 Wx6 Nos. All in series	325 Wx10 Nos. All in series	325 Wx15Nos. All in series	325 Wx24Nos. 12/12 2 String	325 Wx30Nos. 15/15 2 String
Input Voltage	120~150 Vdc	240~300 Vdc	360~450 Vdc	550~750 Vdc	450~550 Vdc	550~750 Vdc
MPPT Voltage Range	80 V~110 V	180 V~250 V	250 V~330 V	480 V~570 V	340 V~420 V	480 V~570 V
Output Voltage	0-72V, EC PWM 3Ph	0-110V, EC PWM 3Ph	0-22V, EC PWM 3Ph	0-380V, EC PWM 3Ph	0-320V, EC PWM 3Ph	0-380V, EC PWM 3Ph
Output Frequency	0~120 Hz (Varies as per Solar radiation) or 0~3600 RPM					
Grid + Solar Input	<b>No</b> , Only Solar output					
LED Display	<b>Yes</b> , Displays Live parameter like DC Volt, Motor RPM, Solar Power, DC Current, any fault if exist.					
RMS	<b>OPTIONAL</b> - With RMS Card Customer can ON-OFF Pump by SMS Also					
Environment Temp. Range	-10 C to 55 C					
Humidity	5 to 95%					
Enclosure Type	IP 54					
Protection	Dry Run, Low Radiation, Reverse Polarity, Over Voltage, Over flow Tank Over Load, Short Circuit					

Also available on Demand with your Brand

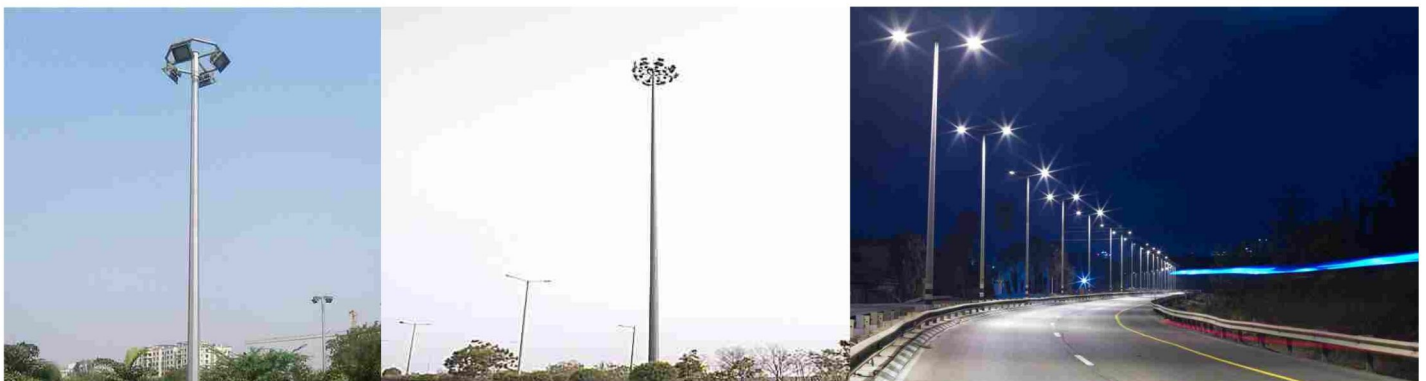
\*\* More than 5 Years warranty on customers demand.





## Technical Specifications: Octagonal Pole

Height	Top Dia	Bottom Dia	THK	SQ Base Plate	PCD	FDN Bolt	No. Of Bolt	Door Size
4000	70	130	3	200 x 12	200	M16 x 500	4	90 x 350
5000	70	130	3	200 x 12	200	M16 x 500	4	90 x 350
6000	90	155	3.5	260 x 12	250	M20 x 600	4	90 x 400
6500	90	160	3.5	260 x 12	250	M20 x 600	4	90 x 400
7000	90	165	3.5	260 x 12	250	M20 x 700	4	90 x 400
7500	90	170	3.5	275 x 16	270	M20 x 700	4	90 x 400
8000	90	175	3.5	275 x 16	270	M20 x 800	4	90 x 400
8500	90	180	3.5	275 x 16	270	M20 x 800	4	90 x 400
9000	90	185	4	275 x 16	270	M24 x 800	4	90 x 400
9500	90	190	4	300 x 20	300	M24 x 800	4	90 x 400
10000	90	195	4	300 x 20	300	M24 x 800	4	90 x 400
10500	90	200	4	300 x 20	300	M24 x 800	4	120 x 500
11000	90	205	4	300 x 20	300	M24 x 800	4	120 x 500
11500	90	210	5	320 x 20	320	M24 x 900	4	120 x 500
12000	90	215	5	320 x 20	320	M24 x 900	4	120 x 500
12500	100	220	5	320 x 20	320	M30 x 900	4	150 x 600
13000	100	225	5	350 x 20	350	M30 x 900	4	150 x 600
13500	100	230	5	350 x 20	350	M30 x 1000	4	150 x 600
14000	100	235	5	350 x 20	350	M30 x 1000	4	150 x 600



Note: Also available on Demand Height 16M, 18M, 22M, 30M & 50M



## Technical Specifications: High Mast Pole

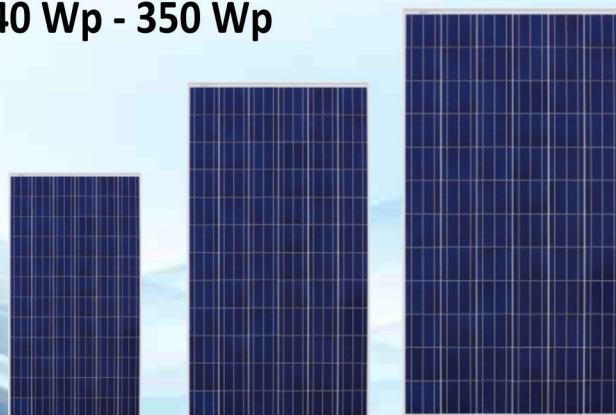
Mast Structure	16 MTR	20 MTR	25 MTR	30 MTR
Material Construction	BSEN 10025	BSEN 10025	BSEN 10025	BSEN 10025
Type Of Welding Cross Section Of Mast On Polygonal (No. Of Sides)	Longitudinal Weld 20 Sided			
Length Of Longer Section				
Top Section	8375 MM	10375 MM	8750 MM	105000 MM
Middle Section			8750 MM	105000 MM
Bottom Section	8375 MM	10375 MM	8750 MM	105000 MM
No. Of Section Of Mast	2 Nos.	2 Nos.	3 Nos.	3 Nos.
Thickness	5 / 3 MM	5 / 3 MM	5 / 4 / 4 MM	5 / 4 / 4 MM
Base Dia & Top Dia (oaf)	404 / 150 MM	450 / 150 MM	520 / 150 MM	533 / 150 MM
Thickness Of Galvanization (mini) Is2629	86 MICRONS	86 MICRONS	86 MICRONS	86 MICRONS
Size Of Opening Door At Base	300 X 100 MM	300 X 100 MM	300 X 100 MM	300 X 100 MM
Size Of Base Plate Diameter	630 MM	630 MM	730 MM	730 MM
Size Of Base Plate Thickness	30 MM	30 MM	30 MM	30 MM
Power Tool				
Input Supply	415/250 VOLTS INT EGRAL OR EXTERNAL			
Foundation Accessories	8 NOS	12 NOS	12 NOS	12 NOS
No. Of Foundation Bolts	530 mm	650 mm	650 mm	
Pcd Of Foundation Bolts	TOR STEEL	TOR STEEL	TOR STEEL	
Type of Foundation Bolts	25 MM	25 MM	25 MM	
Bolt Diameter				
Lantern Carriage (l.c.)				
No. Of Fittings	8 NOS	12 NOS	12 NOS	12 NOS
Winch Rope (asis 316)				
No. Of Ropes Of 6mm Thickness (7/19)		DOUBLE DURM		
Per Lantern Carriage	3 NOS	3 NOS	3 NOS	3 NOS
Per Double Drum Winch	2 NOS	2 NOS	2 NOS	2 NOS
NO. OF DRUMS /WINCH	DOUBLE DURM	DOUBLE DURM	DOUBLE DURM	DOUBLE DURM
CAPACITY (KG)	SWL 750 KG	SWL 750 KG	SWL 750 KG	SWL 750 KG

Note: Also available on Demand Height 40M



## SOLAR POLYCRYSTALLINE PV MODULE

### 40 Wp - 350 Wp



### Technical Specification: Solar Polycrystalline PV Module

Model Type	CNF-40	CNF-50	CNF-60	CNF-75	CNF-335	CNF-340	CNF-350
Cell Type	39x156.75	52.25x156.75	62x156.75	78.37x156.75	156.75x156.75	156.75x156.75	156.75x156.75
Cell Arrangement	36 Cells in series	36 Cells in series	36 Cells in series	36 Cells in series	72 Cells in series	72 Cells in series	72 Cells in series
Dimension	435 x 665 x 30	545 x 665 x 30	630 x 665 x 30	780 x 665 x 35	1965 x 990 x 40/35	1965 x 990 x 40/35	1965 x 990 x 40/35
Weight	3.8 kg	4.6 kg	4.8 kg	6.2 kg	22.00kg	22.00kg	22.00kg
Front Cover	3.2 mm tempered glass						
Frame Material	Anodized Aluminium Alloy						
J-Box	Ip67, 2 diodes				Ip67, 3 diodes		
Cable					4 mm2		

#### Electrical Parameters at Standard Test Condition (STC: AM=1.5, 1000w/M<sup>2</sup>, Cell Temperature 25°C)

Nominal Maximum Power (P <sub>max</sub> )	40W	50W	60W	75W	335W	340W	350W
Optimum Operating Voltage (V <sub>mp</sub> )	19.00V	18.43V	18.52V	18.45V	37.99V	38.25V	38.76V
Optimum Operating Current (I <sub>mp</sub> )	2.10A	2.71A	3.24A	4.06A	8.82A	8.91A	9.03A
Open Circuit Voltage (V <sub>oc</sub> )	22.68V	22.28V	22.32V	22.25V	45.80V	45.13V	45.73V
Short Circuit Current (I <sub>sc</sub> )	2.21A	2.88A	3.45A	4.34A	9.30A	9.38A	9.50A
Module Efficiency ( % )	13.83	13.8	14.32	14.26	17.13	17.39	17.9
Power Tolerance	0 to +2%	0 to +2%	0 to +2%	0 to +2%	0 to +6%	0 to +6%	0 to +6%
Maximum System Voltage	DC 600V	DC 600V	DC 600V	DC 600V	DC 1000V/1500V	DC 1000V/1500V	DC 1000V/1500V
Operating Temperature	~40°C ~ + 85°C						
Maximum Series fuse Rating	6A	6A	6A	10A	20A		
Number of Bypass Diode	1	2	2	2	3		

## SOLAR MONO CRYSTALLINE PV MODULE 350 Wp - 370 Wp

### Technical Specification: Solar Mono Crystalline PV Module

Model Type	CNF-75	CNF-125	CNF-150	CNF-200	CNF-335	CNF-395	CNF-415
Cell Type (mm)	60 * 158.75	105.50*158.75	119*158.75	158.75*158.75	158.75*158.75	158.75*158.75	158.75*158.75
Cell Arrangement	36 Cells	36 Cells	36 Cells	36 Cells	72 Cells	72 Cells	72 Cells
Dimension	610*675*30	1020*675*30	1145*675*30	1500*675*35	1660*1000*35	1985*1000*40	1985*1000*40
Weight	4.8	8.4	9.5	11.4	17.9	22	22
Front Cover	3.2 mm Tempered Glass						
Frame Material	Anodized Aluminium Alloy						
J-Box	Ip67, 2 diodes				Ip67, 3 diodes		
Cable	4 mm <sup>2</sup>				4 mm <sup>2</sup>		

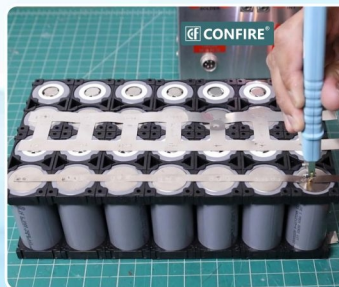
#### Electrical Parameters at Standard Test Condition (STC: AM=1.5, 1000w/M<sup>2</sup>, Cell Temperature 25°C)

Nominal Maximum Power (P <sub>max</sub> )	75W	125W	150W	200W	335W	395W	415W
Optimum Operating Voltage (V <sub>mp</sub> )	20.78	20.64	20.84	20.84	34.81	41.27	42.41
Optimum Operating Current (I <sub>mp</sub> )	3.62	6.07	9.10A	9.6	9.62	9.57	9.79
Open Circuit Voltage (V <sub>oc</sub> )	24.09	23.99	24.1	24.2	40.33	47.97	49.18
Short Circuit Current (I <sub>sc</sub> )	3.82	6.4	7.6	10.14	10.14	10.08	10.26
Module Efficiency ( % )	18.21	18.16	19.41	19.75	20.12	19.9	20.91
Power Tolerance	0 to +2%	0 to +2%	0 to +2%	0 to +2%	0 to +2%	0 to +2%	0 to +2%
Maximum System Voltage	DC 600V	DC 600V	DC 600V	DC 600V	DC 600V	DC 600V	DC 600V
Operating Temperature	~40°C ~ + 85°C						
Maximum Series fuse Rating	12A	12A	12A	12A	25A	25A	25A
Number of Bypass Diode	2	2	2	2	3	3	3





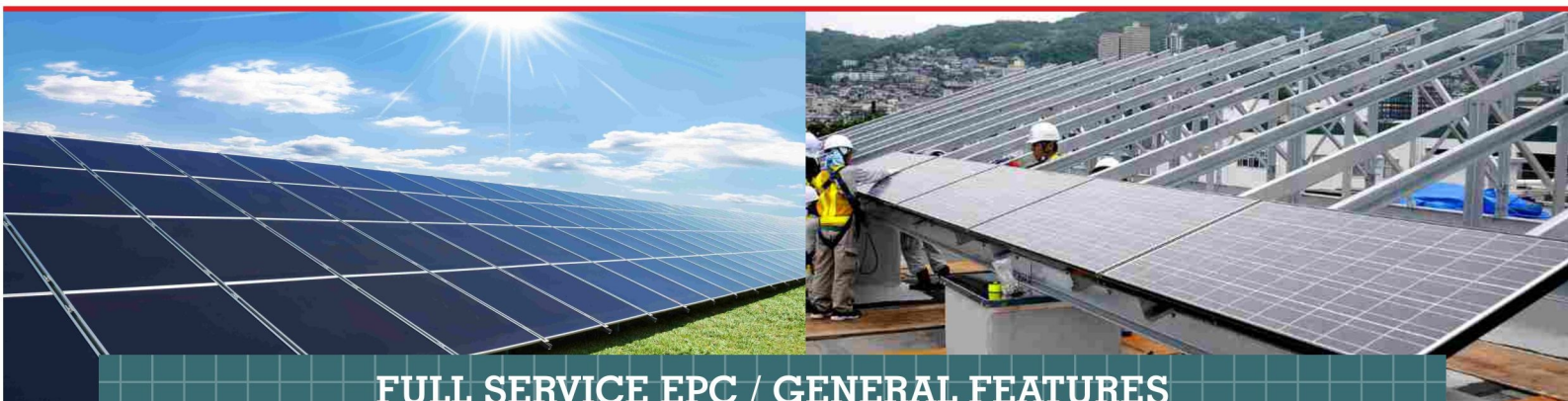
## LiFe-PO4 LITHIUM BATTERY PACK



### Technical Specification: LiFe-PO4 LITHIUM BATTERY PACK

Model Type	CONF0612	CONF1212	CONF1812	CONF2412	CONF3012	CONF3612	CONF4812	CONF8012
Description	Specification							
Nominal Capacity	6Ah	12Ah	18Ah	24Ah	30Ah	36Ah	48Ah	80Ah
Nominal Voltage	12.8 Volt	12.8 Volt	12.8 Volt	12.8 Volt	12.8 Volt	12.8 Volt	12.8 Volt	12.8 Volt
Charge Type	CC/CV	CC/CV	CC/CV	CC/CV	CC/CV	CC/CV	CC/CV	CC/CV
Charge Cut Off Voltage	14.4 Volt	14.4 Volt	14.4 Volt	14.4 Volt	14.4 Volt	14.4 Volt	14.4 Volt	14.4 Volt
Discharge cut Off Voltage	11.1 Volt	11.1 Volt	11.1 Volt	11.1 Volt	11.1 Volt	11.1 Volt	11.1 Volt	11.1 Volt
Charge Current	3	4	5	5	6	8	10	20
Discharge Current	3	4	5	5	6	8	10	20
Weight in Kgs (approx.)	0.6	1.2	1.8	2.4	3	3.6	4.8	8.5
Dimension in mm (lxbxh)	132 x 72 x35 <sub>+2</sub>	132 x 70 x72 <sub>+2</sub>	132 x 100 x72 <sub>+2</sub>	132 x 135 x72 <sub>+2</sub>	132 x 165 x72 <sub>+2</sub>	132 x 200 x72 <sub>+2</sub>	132 x 265 x72 <sub>+2</sub>	235 x 132 x150 <sub>+2</sub>
Standard Temperature	(-5 to +55 Degree)							
Cycle Life	2000	2000	2000	2000	2000	2000	2000	2000
Warranty	2 to 5 yrs.	2 to 5 yrs.	2 to 5 yrs.	2 to 5 yrs.	2 to 5 yrs.	2 to 5 yrs.	2 to 5 yrs.	2 to 5 yrs.
Protections	Over Charge, Deep Discharge, Cell Balancing, Short Circuit.							

Note: 1. Subject to change without intimation  
2. Batteries of any capacity can be customized as per application.



## FULL SERVICE EPC / GENERAL FEATURES

Our team has established long term relationship through out the solar supply chain. In keeping with our customer centered design approach we source best in class components for each unique project-ensuring each client receives the best combination of performance and price for their goals.

- Full site and building review
- Capacity and structural audit
- Technology consultation
- Shading Analysis
- Energy Performance modeling
- Cost Analysis



**ENERGY EFFICIENCY**  
Up to 90% efficient, minimum power losses



**HIGH PERFORMANCE**  
Withstands wide input voltage variation from 90-305 V



**LONG LIFE SPAN**  
>60,000 hours of operation



**EYE SAFETY**  
No IR and UV radiations



**SAFE TO TOUCH**  
No risk of burn during operation and maintenance



**DURABILITY**  
Working temperature -40°C TO +50°C, Withstand shocks, vibration & impacts



**LIGHT EFFICACY**  
Lumens output upto 160 lm/watt.



**ECO-FRIENDLY**  
Mercury and Lead free

### APPLICATION USES

- Home
- Office
- Factory
- Hospital
- Bank
- School
- Farm houses

## FULL SERVICE EPC / ADVANTAGES

### PURPOSE

Serve Customers interests by maximizing the value of their investments while inherent risks are mitigated:

Strategic Business Model to develop, structure and deploy any solar project, anywhere;

Flexibility to adhere to customer needs, deploying project on-time and on-budget;



**DRIVER SAFETY**  
Comes with in-built 10 KV surge protection



**MODULAR DESIGN**  
Pluggable technology to meet different power output requirements



**BETTER HEAT DISSIPATION**  
Advanced heat sink design for efficient cooling



**WATER & DUST PROTECTION**  
Drivers are IP67 & Modules are IP68 Certified



**WIDE OPTICS**  
Can meet various light distribution and beam angle requirements



**EASY MAINTENANCE**  
Requires minimum usage of tools



**BETTER ILLUMINATION**  
Deliver light wherever desired with uniformity

### ENGINEERING

We design solar plants with optimum PV output committed to achieve the most affordable levelized cost of electricity.

### PROCUREMENT & PURCHASING

We are able to negotiate and supply bankable technology of key providers and services suitable to the project at the best terms possible.

### PROJECT MANAGEMENT

From A to Z, we plan the whole process taking care of every detail to guarantee the utmost project completion.

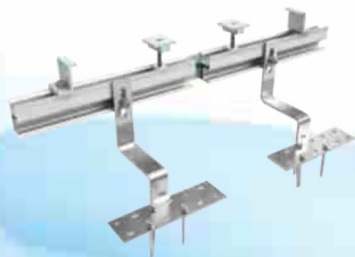
### CONSTRUCTION

We manage referenced contractors to build the project, assuring the highest level of quality within the time and cost deadlines, in total compliance with local regulations





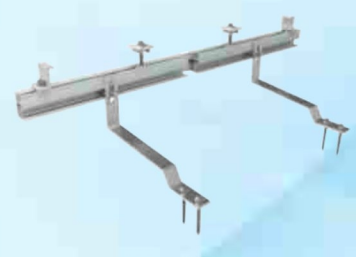
Solar Power plant & structure, the most used covering on sloped roofs are roof tiles and corrugated asbestos cement tiles. The variety of gable roofs is however almost infinite. As a result of many years of experience, the wide selection of different components and systems enables secure with Confire structure systems to almost any module configuration on each roof. Due to our high quality and sophisticated components is achieved by rapid assembly times and reliable durability with structural analysis. In selecting the most appropriate for your roof variant, you have the choice between a roof-parallel and an elevated solution. The engineer team ensure us the special design is also available. During design, fully consider local nature condition, the solution are strong and reliability solution. And all components are highly pre-assembled. Confire Solar power plant & structure is engineered for commercial and residential. Both aluminum series and galvanized series are available. And our system to all types solar panel type. Widely favored by customers with beautiful appearance design and surface treatment; Also, the engineer team ensure us the special design is also available. Solve traditional waterproofing problem. Confire abandons the traditional method of rubberizing and uses a uniquely designed sealing strip to waterproof it, which solves looseness of the rubber strip and water leakage and other problems.



**Tile Roof Mounting CII-TR**



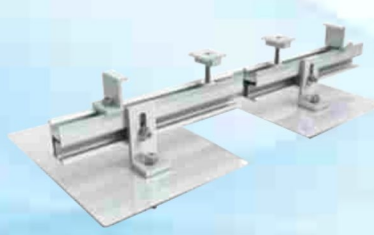
**Adjustable S Tile CII-SR Series**



**Flat Tile Mounting CII-FT Series**



**Roman Tile Mounting CII-RT Series**



**Asphalt Shingles Roof  
CII-AR Series**



**Stand Off Mounting CII-SO Series**



## Technical Specifications: Solar Charge Controller

Model No.	CHCC05	CHCC08	CHCC10	CHCC15	CHCC20	CHCC40
System Voltage	12 V			12/24 V Auto Recognition		
Max. Charge / Load Current	5 A	8 A	10 A	15 A	20 A	40 A
Efficiency	97.2%	97.8%	98%			98.1%
Float Charge	13.7 V			27.4 V		
Boost Charge	14.4 V			28.8 V		
Equalization	14.8 V			29.6 V		
Charging Method	3 - step (on Demand)					
Reconnect Level	12.8 V			25.6 V		
Over Voltage Protection	14.8 V			29.6 V		
Under Voltage Protection	11.2 V			22.4 V		
Max. Panel Voltage	22 V in 12 V system			44 V in 24 V system		
Temperature Compensation	-2 to -3 mV / °C / Cell					
Product Warranty	5 Years / **					

**Note :** Also available running model 36V/30A | 48V/40A-50A | 72V/50A | 96V/40A-50A-60A | 120V/50A-60A | 144V/50A-60A | 180V/50A-60A | 196V/50A-60A | 360V/80A.  
Extra Features CC with GPS system control, WiFi.

\*\* More than 5 Years warranty on customers demand.



## Technical Specifications: Lantern & Study Lamps

Lamp Wattage	3W	3W	1W	0.5W
Solar Panel (Wp)	3 Wp	3 Wp	2 Wp	1 Wp
Battery	6.4V, 6Ah / LiFe Po4	6.4V, 8Ah / LiFe Po4	Li-ion 3.2V/ 2600mAh	Li-ion 3.2V/ 1800mAh
Backup	6 to 8 hrs		8 to 10 hrs	8 to 10 hrs
Light Mode	2 (Hi/Low)	2 (Hi/Med/Low)	2 (Hi/Low)	2 (Hi/Low)
Autonomy	Min 2 Days	Min 2 Days	Min 1 Days	Min 1 Days
Frame	Strong ABS Plastic	Strong ABS Plastic	Strong ABS Plastic	Strong ABS Plastic

Note: Also available with Lithium Battery, LiFe Po4 Battery





Confire is a premium quality, technologically advanced solar water heater, manufactured for domestic as well as commercial use that works efficiently with hard water.

## Available Capacities

100 LPD   150 LPD   200 LPD   250 LPD  
300 LPD   500 LPD   1000 LPD

## FEATURES

### Ultra Tough Tank

- Premium Quality, Technologically Advance Tank Designed to Perform in Toughest Environmental Condition
- Made from Finest Raw Material
- Ultra Heat Corrosion and Resistance coating
- PEF Metallic Powder Coating for UV Resistance
- Concealed Intel-Outlet Connection with Highest Thickness

### Ultra Conductive Collectors

- Ultra Conductive Evacuated Glass Tube
- Collectors with 3 Layers CU/SS/Al-N
- High Power MFMS Coating For Heat Absorption
- Conductive glass tube for more Hot Water

### Robust Stand

- Super Solid GI Stand
- PEF Metallic Powder Coating for Highest UV Resistance
- Welding less technology
- 7 Tank Processed Powder Coating

### Puff Insulation

- Automated Storage Tank Insulation
- High Pressure Injected with High Density Puff Insulation.
- High Garde PUF for hot water retention

## FEATURES

### Ultra Tough Tank

- Made from the finest mild /low carbon steel
- Ultra heat resistance modified food grade coating
- Pure polyester powder coating for UV resistance

### Ultra Conductive Collectors

- Highly efficient selective coating for heat absorption
- Toughened glass with high transmission efficiency
- Ultrasonic welded fins and tubes for optimum heat transfer
- High density insulation for superior heat retention

### Stand

- Specially designed super solid GI Stand
- Pure polyester powder coating for UV resistance

### Insulation

- Automated storage tank insulation
- High density 50 mm thick superior quality
- PUF

### Available Capacities

• 100 LPD   • 200 LPD   • 300 LPD   • 500 LPD



Manufactured utilizing the latest technology in water heating, Confire's Inovais a Premium quality, technologically advanced solar water heater, designed for domestic and commercial water heating requirements.



Celebrating "Make in India" Initiative



Solar for More Smart Living

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**Website:** [www.confire.in](http://www.confire.in)

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