

## Services



EPC Contractor

Consultancy

Supply of Equipment

Testing, Installation, Commissioning

System Upgradation

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## Benefits



Utility Savings

Low power generation cost

ECO- friendly

A prerequisite for Green Building

Low operation cost

Feed-in-tariff

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## Authorized National Distributor



## Project Partners



## Some of Our Valued Clients



## Contact Us

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## Renewable Energy & Power Division

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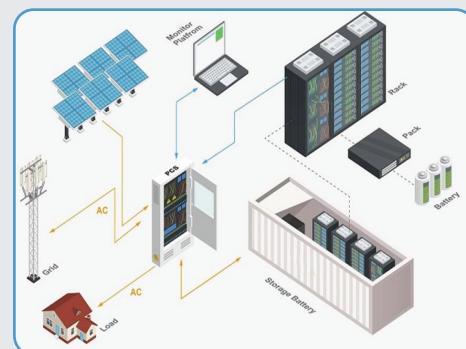
## Solar Solutions by UCC



Solar Power Plant



Commercial and Industrial Rooftop Solar Solution



Off Grid and Hybrid Solar Solution



Solar Irrigation Pump



Residential Solar Solution



Solar Street Light

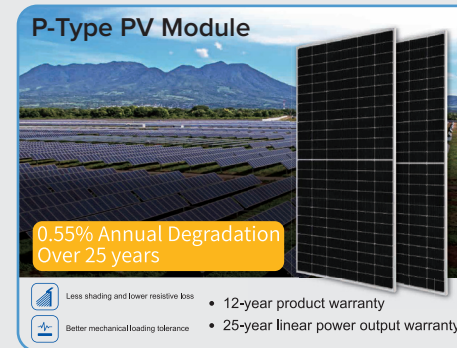
## About UCC

UCC, one of the market leaders in the field of IT and consumer electronics, has been operating across Bangladesh for about last 24 years. With strong product sales and marketing strategy, UCC has the capability of distributing products maintaining win-win situation for every stakeholder including B2B and B2C customers countrywide ensuring better value and greater satisfaction for end users.

Since 2018, UCC has taken further steps to make its footprint in Power & Renewable Energy sector to provide cutting edge solutions to residential, commercial, industrial and government sectors. Currently we're offering solutions for Rooftop On-Grid, Off-Grid, Hybrid & Mini-Grid solar systems from Kilowatts to Megawatts scale projects along with Solar Irrigation Pump & Solar Street Light solutions. UCC is well equipped with a team of experts in the field of renewable energy who are highly experienced and successfully completed many Government, Non-Government and multinational company projects. UCC has partnered with world's leading inverter companies like Sungrow, SMA, Victron, Huawei, Siemens KAKO, Solis etc. while partnered with Jinko Solar, JA Solar, Trina Solar, LONGi Solar to provide Tier-1, top graded PV panels only. UCC works as distributor for LPI branded Lightning Protection on Solar products in Bangladesh. LPI is an Australian company that is specialist in offering wide range of lightning protection solutions along with surge protectors and earthing compounds all having NFC17-102 of 2011 (Latest revision) & IEC 60-1:1989 standard certifications.

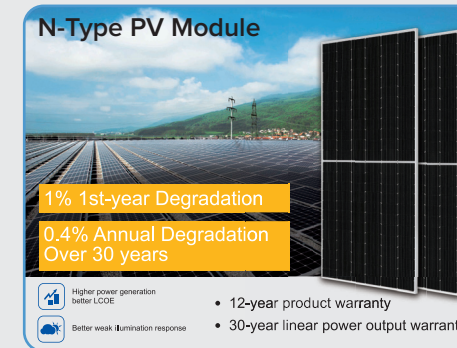
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## Solar Panel



0.55% Annual Degradation Over 25 years

12-year product warranty  
25-year linear power output warranty



1% 1st-year Degradation  
0.4% Annual Degradation Over 30 years

12-year product warranty  
30-year linear power output warranty

## Inverter



2246W\* 1406W/Year 150\*



Off Grid Inverter and Charging controller Hybrid Inverter Made in Netherlands

## Aluminum Structure & Cable



Aluminum/ZAM Mounting Structure



Special Solar Cable LAPP Made in Germany

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## Lightning/Surge Protection Solution



Lightning/Surge Protection Solution • Chemical Earthing Solution

## LPI ESE AND CSE / CAT AIR TERMINAL PROTECTION RADIUS CALCULATION

### Protection Performance

The protection radius ( $R_p$ ) of a Stormmaster ESE terminal is calculated using the following formula as defined in IEC 61024-1-102 (September 2011):

$$R_p(h) = \sqrt{2h^2 + h^2 + \Delta(2h + \Delta)}$$

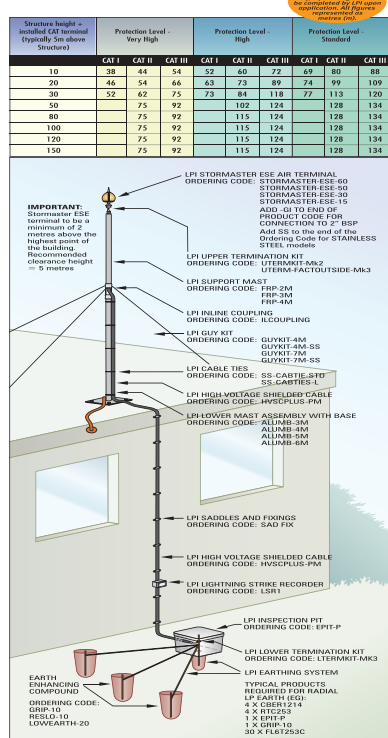
for  $h \leq 5m$  and  $R_p \geq h + R_{p0} / 5$  for  $2.5 \leq h < 5m$

where  $h$  = Stormmaster height relative to the area being protected (m)  
 $R_{p0}$  = value of  $R_p$  from Eqn. (3) when  $h = 5m$   
 $R$  = 20 m for protection level I (Very High protection)  
 30 m for protection level II (High protection)  
 45 m for protection level III (Medium protection)  
 60 m for protection level IV (Standard protection)

and  $\Delta$  = Stormmaster time and height advantage according to the Stormmaster model installed:

Choices: Stormmaster ESE 15:  $\Delta = 15 \mu s$   
 Stormmaster ESE 30:  $\Delta = 30 \mu s$   
 Stormmaster ESE 50:  $\Delta = 50 \mu s$   
 Stormmaster ESE 60:  $\Delta = 60 \mu s$

h - Height of Stormmaster ESE terminal above the area to be protected (m)	PROTECTION RADIUS, R <sub>p</sub> (m)										
	2	4	5	6	10	15	20	45	60	80	100
Protection Level I (Very High)											
Stormmaster ESE 15	13	25	32	32	34	35	35	35	35	35	35
Stormmaster ESE 30	19	38	48	48	49	50	50	50	50	50	50
Stormmaster ESE 50	27	55	68	69	70	70	70	70	70	70	70
Stormmaster ESE 60	31	63	78	78	78	78	80	80	80	80	80
Protection Level II (High)											
Stormmaster ESE 15	15	30	37	38	40	42	44	44	44	44	44
Stormmaster ESE 30	24	44	56	57	58	59	59	59	59	59	59
Stormmaster ESE 50	30	61	76	77	77	79	79	79	79	79	79
Stormmaster ESE 60	35	69	86	87	88	89	89	89	89	89	89
Protection Level III (Medium)											
Stormmaster ESE 15	18	36	45	46	49	52	55	55	55	55	55
Stormmaster ESE 30	25	51	63	64	66	69	71	75	75	75	75
Stormmaster ESE 50	35	69	88	89	92	95	95	95	95	95	95
Stormmaster ESE 60	39	78	97	97	99	101	102	105	105	105	105
Protection Level IV (Standard)											
Stormmaster ESE 15	20	41	51	52	56	60	63	63	63	63	63
Stormmaster ESE 30	28	57	71	72	75	80	81	81	81	81	81
Stormmaster ESE 50	38	76	97	98	100	102	105	110	110	110	110
Stormmaster ESE 60	43	85	107	107	109	111	113	120	120	120	120



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