



Renewable Energy & Power Division



About UCC

It goes back to more than eighteen years, UCC has successfully been serving as market leader in different segments of IT, mobile and consumer electronics channel through distribution of products and provider of service & solutions. In recent times UCC has taken further steps to make its footprint in Power & Renewable Energy sector to provide cutting edge solutions to residential, commercial, and industrial & government sector. Currently we're offering solutions for Rooftop On-Grid, Off-Grid, Hybrid & Mini Grid Solar systems from Kilowatts to Megawatts 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 companies' projects. UCC has partnered with world's leading inverter companies like SMA, ABB, Fronius, INVT, JFY etc. while partnered with REC, Canadian Solar, Solar World to provide Tier-1, top graded panels only.

UCC works as distributor for LPI branded Lightning Protection Solution products in Bangladesh. LPI is an Australian company that is a specialist in offering wide range of lightning protection solutions along with surge protectors and earthing compounds all having NFC17-102 of 2011 (latest revision) & ICE 60-1:1989 standard certifications.

Solar Solutions by us



Solar Power Plant



Commercial/Industrial Solar Setup



MiniGrid Solution



Solar Irrigation Pump



Residential Solar Setup



Solar Street Lighting

Solar Panel

SOLAR'S MOST TRUSTED **REC**

NOW WITH NEW WARRANTY

- REDUCES BALANCE OF SYSTEM COSTS
- IMPROVED PERFORMANCE IN HIGHER TEMPERATURES
- INDUSTRY LEADING LIGHTWEIGHT CELL PANEL
- 100% PID FREE

CanadianSolar
THE NEXT GENERATION MODULE

25 YEARS Warranty

- 25% efficiency
- High Performance
- Low Temperature Coefficient
- High Power
- High Voltage
- High Reliability
- High Safety
- High Durability
- High Quality

Inverter

Fronius

MAXIMUM POWER GENERATION.
THE FRONIUS SNAPINVERTER GENERATION.

- Made in Austria
- Snap Inverter Technology
- Export Limitation/Zero feed in
- Dynamic Peak Manager
- Superflex Design
- Dynamic Peak Manager

ABB

ABB Inverters

- Made in Italy
- True three-phase bridge topology for DC/AC output converter
- Transformerless topology
- Each inverter is set on specific grid codes which can be selected in the field
- Detachable wiring box to allow an easy installation
- Wide input range
- Electrolyte-free power converter to further increase the life expectancy and long term reliability

Aluminum Structure & Cable

Aluminum Mounting Structure

- Aluminum Solar PV mounting structure
- Corrosion free, long lasting
- Cost effective
- Excellent strength-to-weight-ratios
- Inherent resistance to corrosion
- Lighter weight
- Innovative design
- Easy Installation

LAPP

Special Solar Cable

Made in Germany

- ÖLFLEX®
- UNTRONIC®
- ETHERLINE®
- HTRONIC®
- EPIC®
- SKINTOP®
- SILVYN®
- FLEXIMARK®

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 Stormaster ESE terminal is calculated using the following formula as defined in NF C 17-102 (September 2011), namely:

$$R_p(h) = \sqrt{2rh - h^2 + \Delta(2r + \Delta)} \quad \text{for } h \geq 5 \text{ m}$$

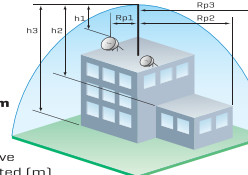
and

$$R_p = h \times R_{p_0} / 5 \quad \text{for } 2.5 \text{ h} \leq 5 \text{ m}$$

where h = Stormaster height relative to the area being protected (m)
 R_{p_0} = value of R_p for $h = 5 \text{ m}$
 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)

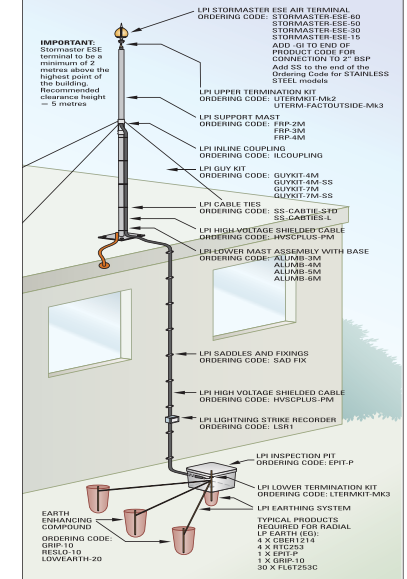
and Δ = Stormaster time and height advantage according to the Stormaster model installed:

- Choices:
- Stormaster ESE 15: $\Delta = 15 \mu\text{s}$
 - Stormaster ESE 30: $\Delta = 30 \mu\text{s}$
 - Stormaster ESE 50: $\Delta = 50 \mu\text{s}$
 - Stormaster ESE 60: $\Delta = 60 \mu\text{s}$



	PROTECTION RADIUS, R_p (m)									
h = height of Stormaster ESE terminal above the area to be protected (m)	2	4	5	6	10	15	20	45	60	100
Protection Level I (Very High)										
Stormaster ESE 15	13	25	32	34	35	35	35	35	35	35
Stormaster ESE 30	19	38	48	48	49	50	50	50	50	50
Stormaster ESE 50	27	55	68	69	70	70	70	70	70	70
Stormaster ESE 60	31	63	79	79	79	80	80	80	80	80
Protection Level II (High)										
Stormaster ESE 15	15	30	37	38	40	42	44	44	44	44
Stormaster ESE 30	22	44	55	55	57	58	59	59	59	59
Stormaster ESE 50	30	61	76	76	77	79	79	79	79	79
Stormaster ESE 60	35	69	86	87	88	89	89	89	89	89
Protection Level III (Medium)										
Stormaster ESE 15	18	36	45	46	49	52	55	60	60	60
Stormaster ESE 30	25	51	63	64	66	69	71	75	75	75
Stormaster ESE 50	35	69	86	87	88	90	92	95	95	95
Stormaster ESE 60	39	78	97	97	99	101	102	105	105	105
Protection Level IV (Standard)										
Stormaster ESE 15	20	41	51	52	56	60	63	73	75	75
Stormaster ESE 30	29	57	71	72	75	78	81	89	90	90
Stormaster ESE 50	38	76	95	96	98	100	102	109	110	110
Stormaster ESE 60	43	85	107	107	109	111	113	119	120	120

Structure height h including CAT terminal (Typical Size above Structure)	Protection Level - Very High			Protection Level - High			Protection Level - Standard		
	CAT I	CAT II	CAT III	CAT I	CAT II	CAT III	CAT I	CAT II	CAT III
10	38	44	54	52	60	72	69	80	88
20	46	54	66	62	73	89	78	99	109
30	52	62	75	73	84	118	77	113	120
50	75	92	102	102	124	128	134	134	134
80	92	115	124	115	124	128	134	134	134
100	95	115	124	115	124	128	134	134	134
120	95	115	124	115	124	128	134	134	134
150	95	115	124	115	124	128	134	134	134



Services



EPC Contractor

Consultancy

Supply of Equipment

Installation

Testing

Commissioning

System Upgradation

Benefits



Utility Savings



Low power generation cost



ECO- friendly



A prerequisite for Green Building



Low operation cost



Feed-in-tariff



National Distributor

LIGHTNING PROTECTION
INTERNATIONAL PTY LTD



Authorized Distributor



Project Partners



Some of Our Valued Clients



Contact Us



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