



We provide more than composite

Composite Lighting Pole

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I ntroduction

Unicomposite's unique fiberglass light pole is design and supplied for both residential and commercial installations. They are strong, lightweight for ease of installation, low in maintenance, fade and chemical resistant. Our light is made to exacting standards, to provide you with the highest quality.. yet are competitively priced.



Comparison of Composite Light & Normal Light

	FRP	Metal
Weight	Specific weight 1.86, about 26-32% that of steel. A 3-4meters pole only 2.8-5.3kg, very easy to move	Specific weight 7.80, about 3-4 times heavy as composite pole. A 3-4meters pole only 10-20kg, very hard to move
rusting	Never rusting	Even after good power coated, rust may be happened.
installation	Very easy, for it's light, only one or two persons by hand, no need for machines.	Very heavy, so, generally need help of lifter or heavy machines, which add much cost
maintenance	Completely maintenance free	Need re-coating or refurbish after some time.
Surface finish	Smooth and surface layer can be integrated with the inside material, so the surface layer will NOT fall off with	The surface coating often fall off after some time, for the index of expansion against temperature is much different for
insulation	NON conductive, very good insulation	Conductive, have risk for electricity leakage.
Service life	Longer than metal, 35-45 years	Shorter life for rusting or corrosion
cost	For economic type save 22-40% For advanced type save 10-20%	More expensive than composite pole
Wind resistance	Meet all wind resistant standard. we design different pole structure for different length and applications	Good, but designable is NOT good.
Good, but designable is NOT good.	We make both pole and accessories such as base joint, base decoration cover, crossarm, light base, etc.	Need particular design and tooling
Corrosion resistance	Very good against water, acid rain, sea water, salty air, chemicals. So can be used in all locations.	Easy to be attacked by water, acid rain and sea water. So limited in some locations
Heat absorption	Good heat insulation, very low heat absorption, so the pole temperature not goes much higher than air temperature	Easy to absorb heat from sun light, so raise the pole temperature very high, which let the coating layer degradation and peels off.
handle	Easy to carry and transportation, we supply both ready-made pole and accessories, so you don't need to do tube/pipe forming, welding, grinding, acid washing and cleaning, zinc plating and coating	Need lots of labour force, machines and other facilities and resources to do tube/pipe forming, welding, grinding, acid washing and cleaning, zinc plating and coating

Square/ Rectangular lighting pole

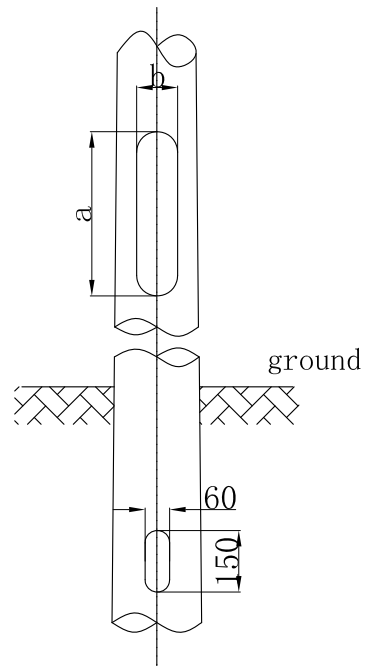
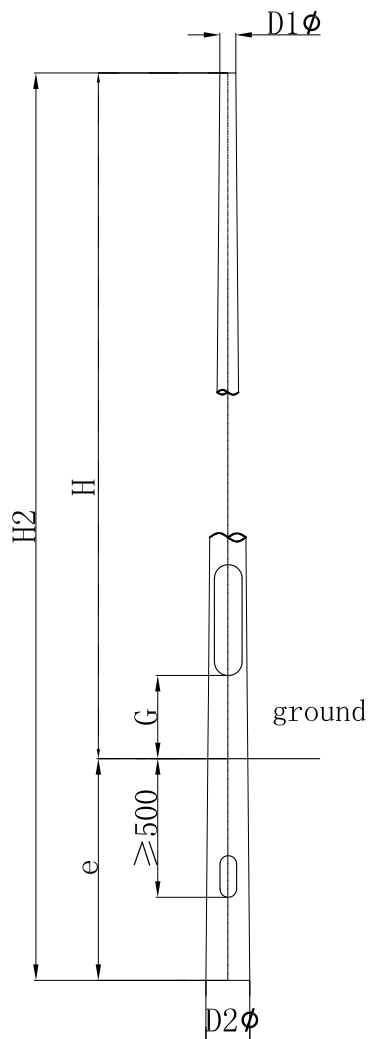


Round lighting pole



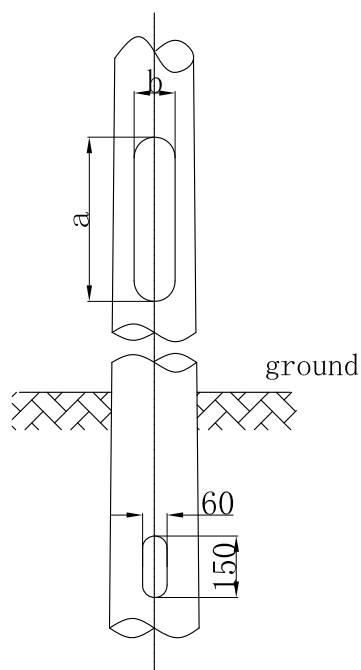
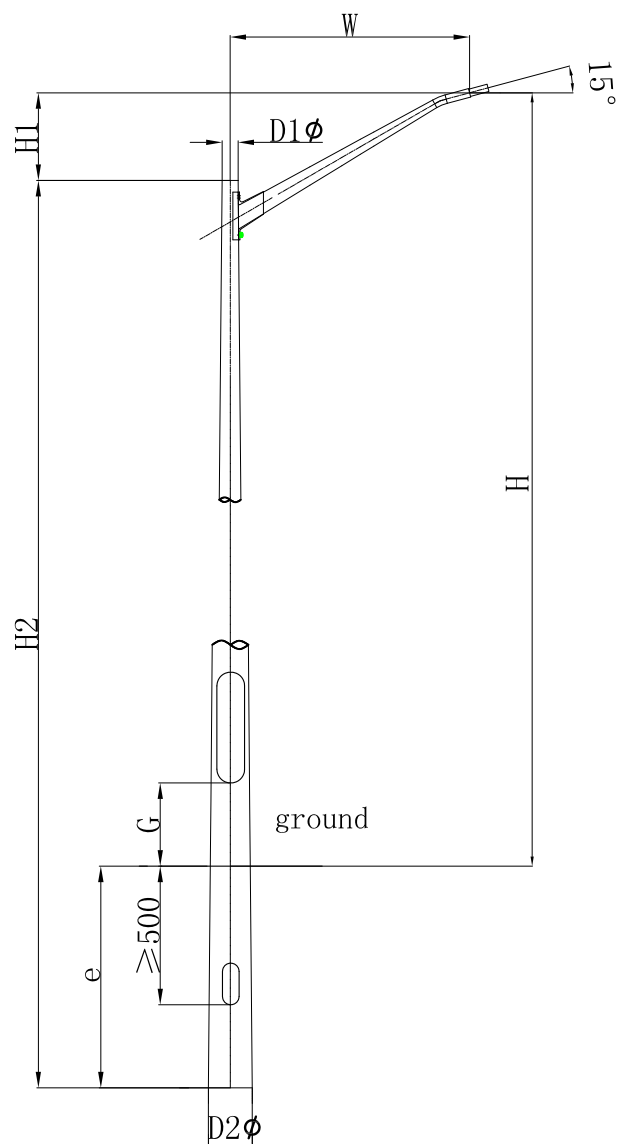
Comparison between composite and metal Poles

	FRP	Metal
Density	1.85g/cm ³	Steel: 7.80g/cm ³ Aluminum: 2.69g/cm ³
Rusting	Never rusting	Still rust after certain period even if been coated
Installation	Only need one or two workers	Crane is needed as well as a group of workers
Maintenance	Completely maintenance free	Need re-coating or refurbish after certain period
Insulation	NON conductive, very good insulation	Conductive , will be d angerous when electricity leakage
Service Life	35-45 years	10-20 years
Wind Resistance	Excellent chemical resistant against water, acid rain, sea water, salty air, saline-alkali soil.	Easy to be attacked by water, acid rain and sea water.
Heat absorption	Good heat insulation, very low heat absorption. Pole temperature will not go much higher than air temperature.	Easy to absorb heat from sun light. Pole temperature rises rapidly, which will make the coating layer peel off.
Handle	Easy to carry and transportation.	Need lots of labor, machines during transportation, loading and unloading.



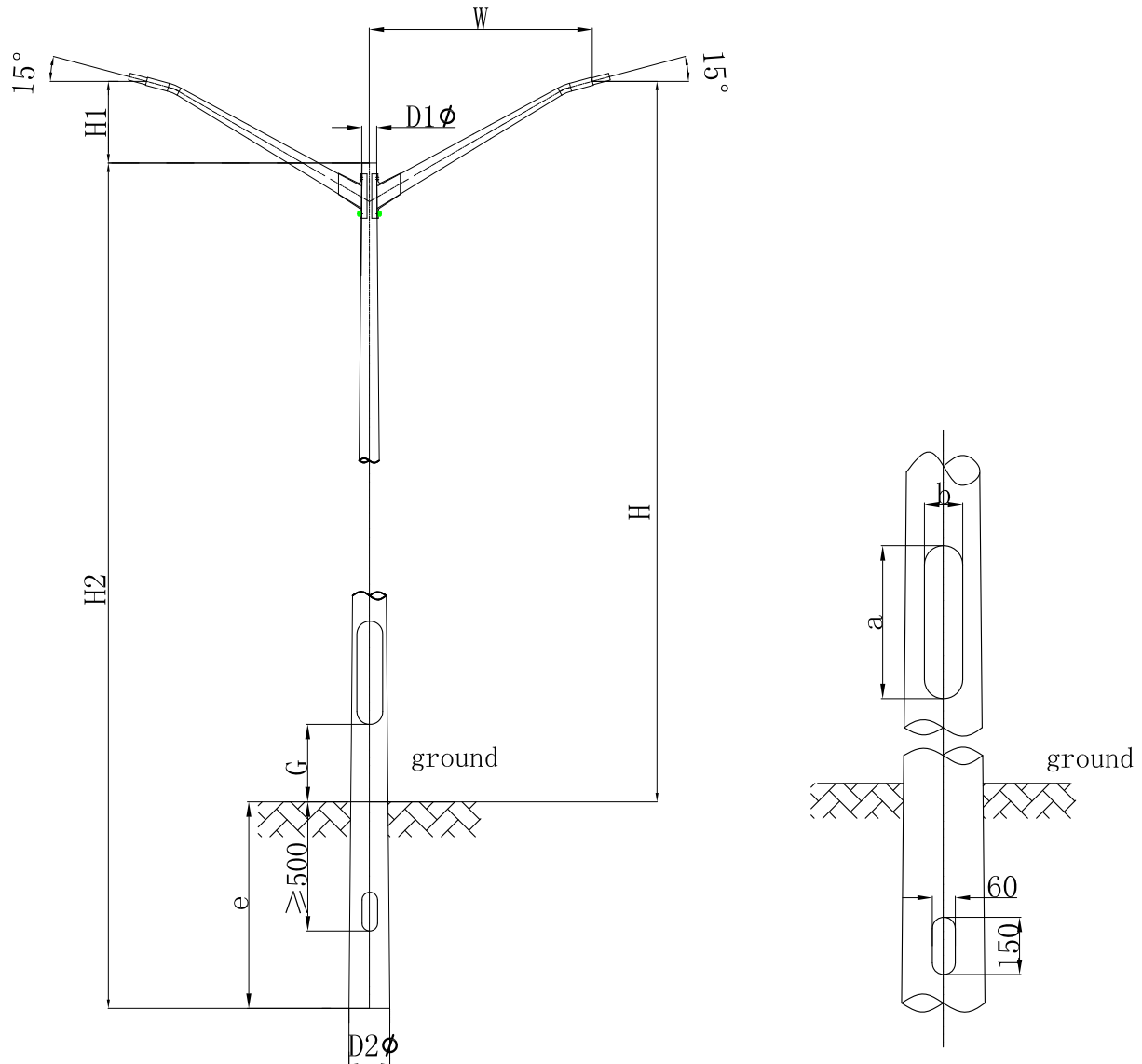
H mm	H2 mm	D1 mm	D2 mm	E mm	A*B mm	G mm	Comcity mm/m
5000	5600	100	201	600	400*100	600	18
6000	6800	100	222	800	400*100	600	18
7000	8000	100	244	1000	400*100	600	18
8000	9000	100	262	1000	400*100	600	18
9000	10200	100	284	1200	400*100	600	18
10000	11200	100	302	1200	400*100	600	18
11000	12500	100	325	1500	400*100	600	1R
12000	13500	100	343	1500	400*100	600	18

Direct Buried Single Arm



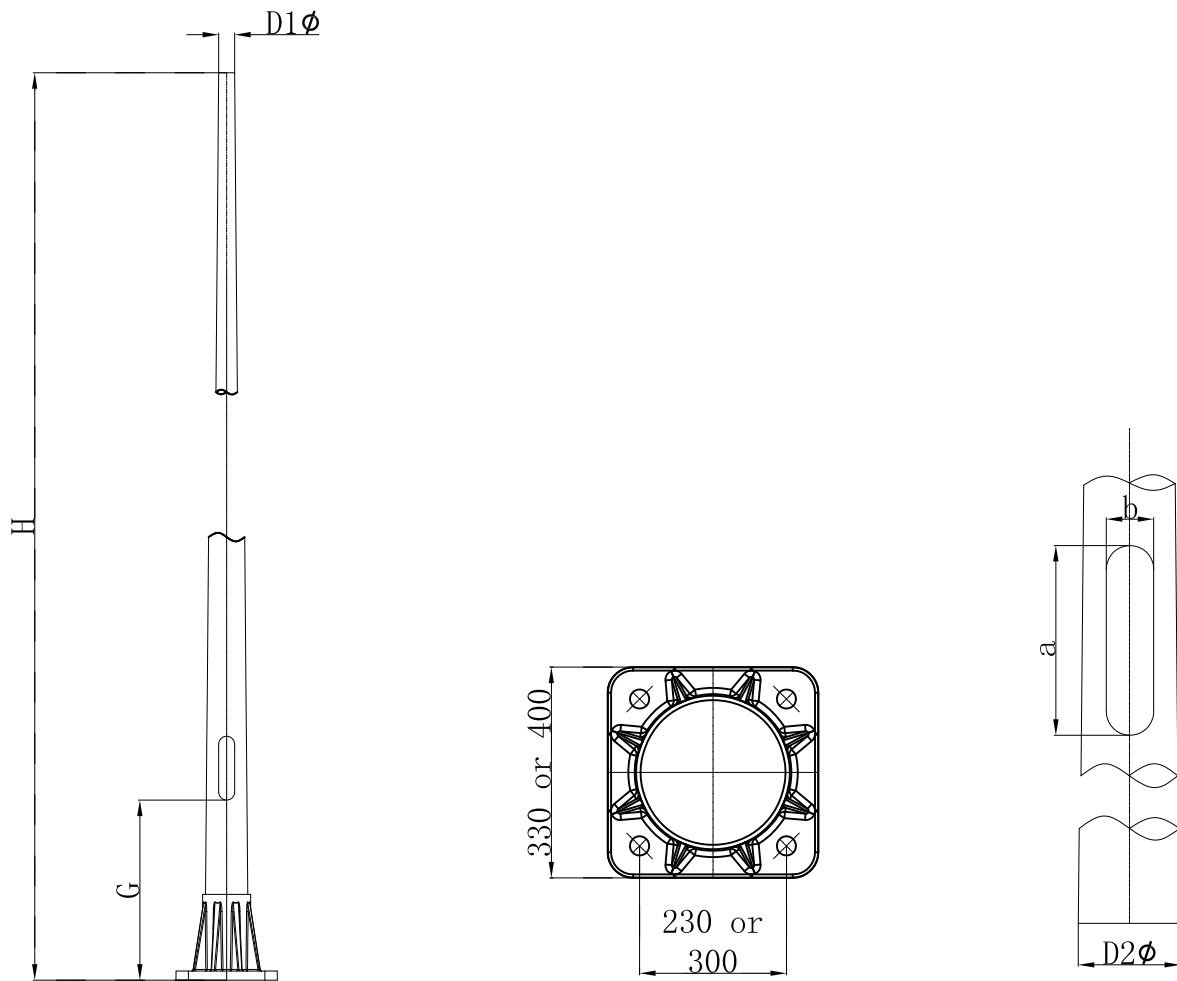
H mm	HI mm	H2 mm	DI mm	D2 mm	E mm	A*B mm	G mm	W mm	Comcity mm/m
5000	550	5050	100	191	600	300*90	400	1500	18
6000	550	6250	100	213	800	400*100	600	1500	18
7000	550	7450	100	234	1000	400*100	600	1500	18
8000	550	8450	100	252	1000	400*100	600	1500	18
9000	550	9650	100	274	1200	400*100	600	1500	18
10000	550	10650	100	292	1200	400*100	600	1500	18
11000	550	11950	100	315	1500	400*100	600	1500	18
12000	550	12950	100	333	1500	400*100	600	1500	18

Direct Buried Double Arm



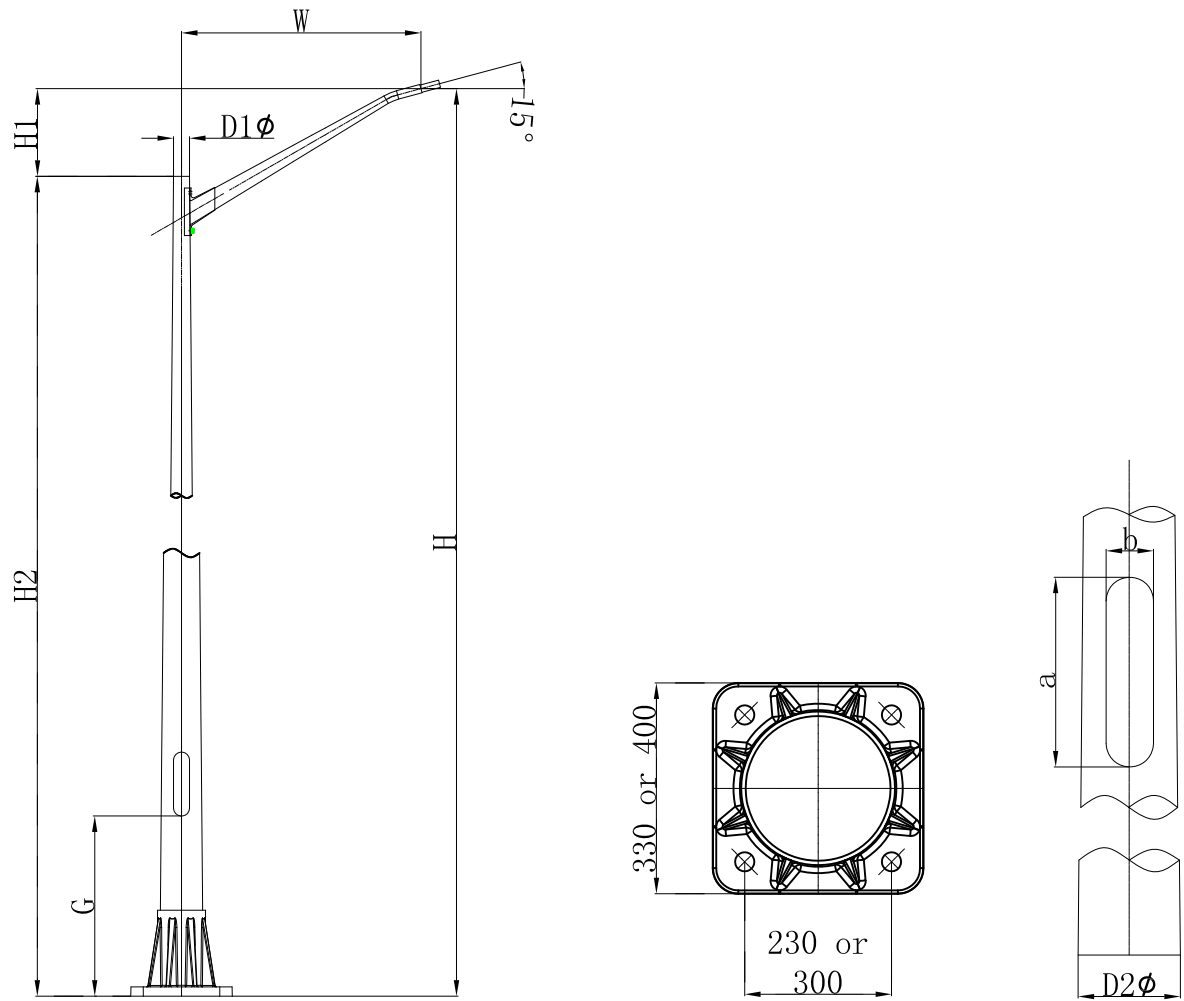
H mm	H1 mm	H2 mm	D1 mm	D2 mm	E mm	A*B mm	G mm	W mm	Comcity mm/m
5000	550	5050	100	191	600	300*90	400	1500	18
6000	550	6250	100	213	800	400*100	600	1500	18
7000	550	7450	100	234	1000	400*100	600	1500	18
8000	550	8450	100	252	1000	400*100	600	1500	18
9000	550	9650	100	274	1200	400*100	600	1500	18
10000	550	10650	100	292	1200	400*100	600	1500	18
11000	550	11950	100	315	1500	400*100	600	1500	18
12000	550	12950	100	333	1500	400*100	600	1500	18

Anchor Base Type Post Pole



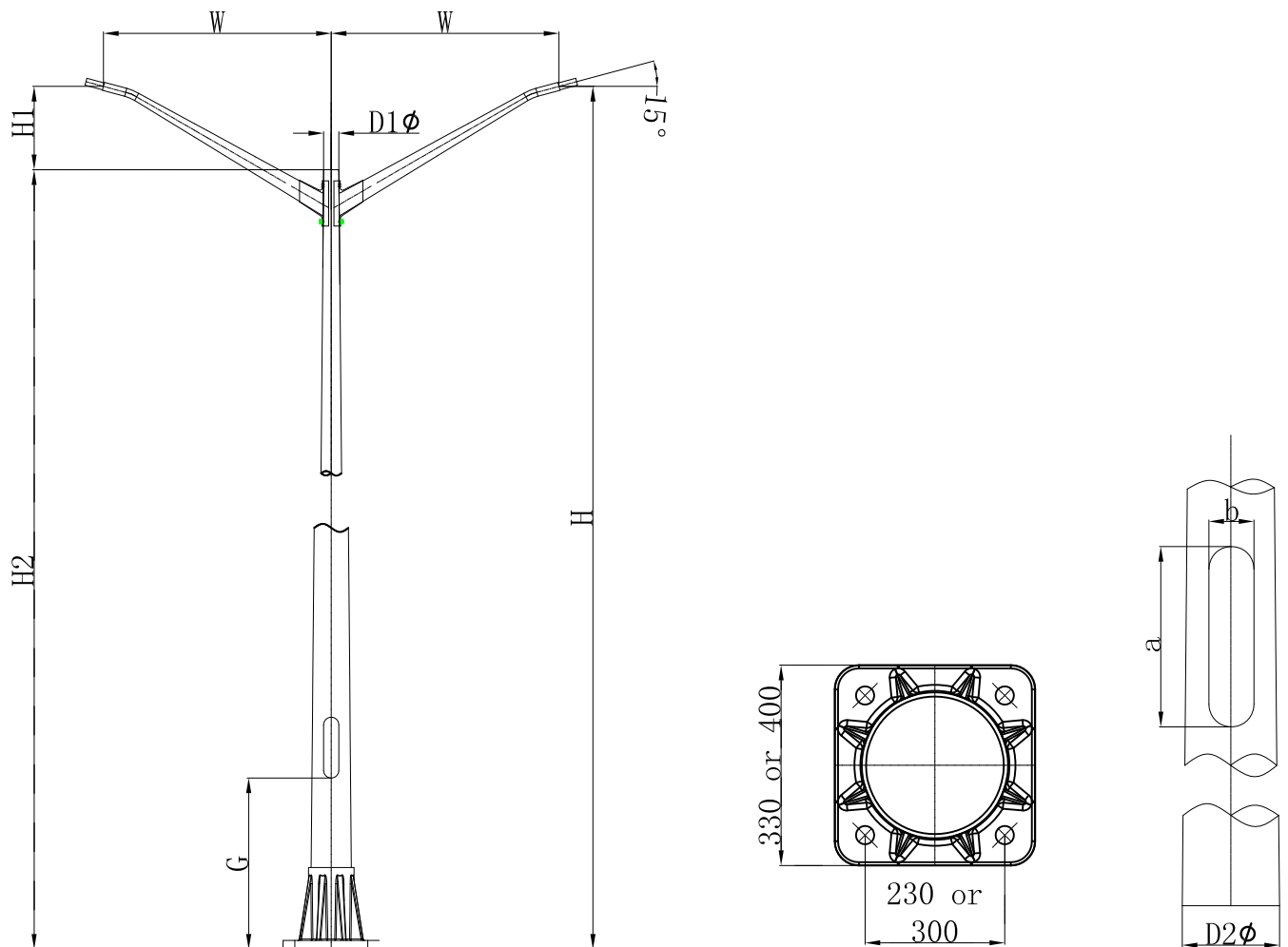
H mm	D1 mm	D2 mm	A*B mm	G mm	Comcity mm/m
5000	100	190	300*90	400	18
6000	100	208	300*90	600	18
7000	100	226	400*100	600	18
8000	100	244	400*100	600	18
9000	100	262	400*100	600	18
10000	100	280	400*100	600	18
11000	100	298	400*100	600	18
12000	100	316	400*100	600	18

Anchor Base Type Single Arm



H mm	H1 mm	H2 mm	D1 mm	D2 mm	A*B mm	G mm	W mm	Comcity mm/m
5000	550	4450	100	180	300*90	400	1500	18
6000	550	5450	100	198	400*100	600	1500	18
7000	550	6450	100	216	400*100	600	1500	18
8000	550	7450	100	234	400*100	600	1500	18
9000	550	8450	100	252	400*100	600	1500	18
10000	550	9450	100	270	400*100	600	1500	18
11000	550	10450	100	288	400*100	600	1500	18
12000	550	11450	100	306	400*100	600	1500	18

Anchor Base Type Double Arm



H mm	H1 mm	H2 mm	D1 mm	D2 mm	A*B mm	G mm	W mm	Comcity mm/m
5000	550	4450	100	180	300*90	400	1500	18
6000	550	5450	100	198	400*100	600	1500	18
7000	550	6450	100	216	400*100	600	1500	18
8000	550	7450	100	234	400*100	600	1500	18
9000	550	8450	100	252	400*100	600	1500	18
10000	550	9450	100	270	400*100	600	1500	18
11000	550	10450	100	288	400*100	600	1500	18
12000	550	11450	100	306	400*100	600	1500	18

Mechanical properties of Unicomposite lighting poles

Tensile strength	~450 N/mm²
Flex. Elongation	~4.5%
Flexural strength	~370N/mm²
Flex.E-modules	~30-32 N/mm²
mpact strength	~ 5N/mm²
Heat distortion temperature	above maximum of standard



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