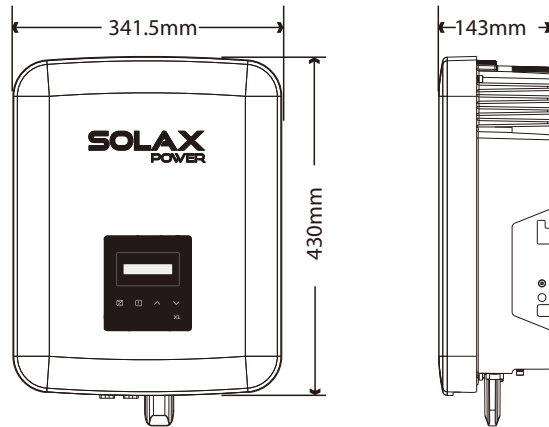


### 3.3 Dimension

#### ➤ Dimension



## 4. Technical Data

### 4.1 DC Input

Model	X1-3.0-T-D	X1-3.3-T-D	X1-3.6-T-D	X1-4.2-T-D	X1-4.6-T-D	X1-5.0-T-D	X1-5.3/5.98-T-D*
	X1-3.0-T-N	X1-3.3-T-N	X1-3.6-T-N	X1-4.2-T-N	X1-4.6-T-N	X1-5.0-T-N	X1-5.3/5.98-T-N
Max. recommended DC power [W]	3250	3500	4000	4600	5200	5200	5300/5980
Max. DC voltage[V]	600	600	600	600	600	600	600
MPPT voltage range [V]	70-580	70-580	70-580	70-580	70-580	70-580	70-580
MPPT voltage range@full load [V]	150-500	150-500	160-500	190-500	220-500	220-500	220-500
Max. input current [A]	12/12	12/12	12/12	12/12	12/12	12/12	12/12
Max. short circuit current [A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14
Start input voltage [V]	80	80	80	80	80	80	80
Start output voltage [V]	100	100	100	100	100	100	100
No. of MPP trackers	2	2	2	2	2	2	2
Strings per MPP tracker	1	1	1	1	1	1	1
Max. inverter backfeed current to the array(mA)	0						
DC disconnection switch	Optional						

Note: The four models(X1-5.3-T-D/X1-5.3-T-N/X1-5.98-T-D/X1-5.98-T-N) with signal “\*” are only for India.

### 4.2 AC Output

Model	X1-3.0-T-D	X1-3.3-T-D	X1-3.6-T-D	X1-4.2-T-D	X1-4.6-T-D	X1-5.0-T-D	X1-5.3/5.98-T-D
	X1-3.0-T-N	X1-3.3-T-N	X1-3.6-T-N	X1-4.2-T-N	X1-4.6-T-N	X1-5.0-T-N	X1-5.3/5.98-T-N
Rated output power [W]	3000	3300	3680	4200	4600	5000 (4600for VDE4105) (4999 for AS4777)	5000
Max.apparent AC power [VA]	3300	3630	4048 (3680 for G98)	4620	5060	5500 (4600for VDE4105) (4999 for AS4777)	5500
Rated grid voltage and range [V]	220/230/240 (180-280)						
Rated AC frequency and range [Hz]	50(45-55)/60(55-65)						
AC nominal current [A]	13	14.3	16	18.3	20	21.7 (20for VDE4105)	21.7
Max. output current [A]	14.3	15.8	17.6(16forG98)	20.1	22	23.9 (21.7for AS4777)	23.9
Max. output fault current [A]	24.7						
Max. output overcurrent protection(A)	33						
Inrush current(A)	92						
Total harmonic distortion(THDi)	<2%						
Displacement power factor	0.8 leading-0.8lagging						
Feed in phase	Single-phase						
Over voltage category	III (electric supply side), II (PV side)						

### 4.3 Efficiency, Safety and Protection

Model	X1-3.0-T-D	X1-3.3-T-D	X1-3.6-T-D	X1-4.2-T-D	X1-4.6-T-D	X1-5.0-T-D	X1-5.3/5.98-T-D*
	X1-3.0-T-N	X1-3.3-T-N	X1-3.6-T-N	X1-4.2-T-N	X1-4.6-T-N	X1-5.0-T-N	X1-5.3/5.98-T-N
MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
Euro efficiency	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
Max. efficiency	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%
<b>Safety &amp; Protection</b>							
Over/under voltage protection	YES						
DC isolation protection	YES						
Monitoring ground fault protection	YES						
Grid protection	YES						
DC injection monitoring	YES						
Back feed current monitoring	YES						
Residual current detection	YES						
Anti-islanding protection	YES						
Over load protection	YES						
Over heat protection	YES						

### 4.4 General Data

Model	X1-3.0-T-D	X1-3.3-T-D	X1-3.6-T-D	X1-4.2-T-D	X1-4.6-T-D	X1-5.0-T-D	X1-5.3/5.98-T-D
	X1-3.0-T-N	X1-3.3-T-N	X1-3.6-T-N	X1-4.2-T-N	X1-4.6-T-N	X1-5.0-T-N	X1-5.3/5.98-T-N
Dimension [W/H/D](mm)	430*341.5*143						
Dimension of packing [W/H/D](mm)	514*439*233						
Net weight [kg]	13.5	13.5	13.5	14.5	14.5	14.5	14.5
Gross weight [kg]	16.0	16.0	16.0	17.0	17.0	17.0	17.0
Installation	Wall-mounted						
Operating temperature range[°C]	-25~+60 (derating at 45)						
Storage temperature [°C]	-25~+60						
Storage/Operation relative humidity	0%~95%, without condensation						
Altitude [m]	≤2000						
Ingress Protection	IP65						
Isolation type	Transformerless						
Protective Class	I						
Night-time consumption	<0.5w						
Over Voltage Category	III(MAINS), II(PV)						
Pollution Degree	II						
Cooling	Natural Cooling						
Noise level	<25dB						
Inverter Topology	Non-isolated						
Communication interface	Pocket WiFi /LAN/GPRS /4 G/Meter/CT(optional)/RS485/ DRM/ USB						
Standard warranty [year]	5years (10 optional)						

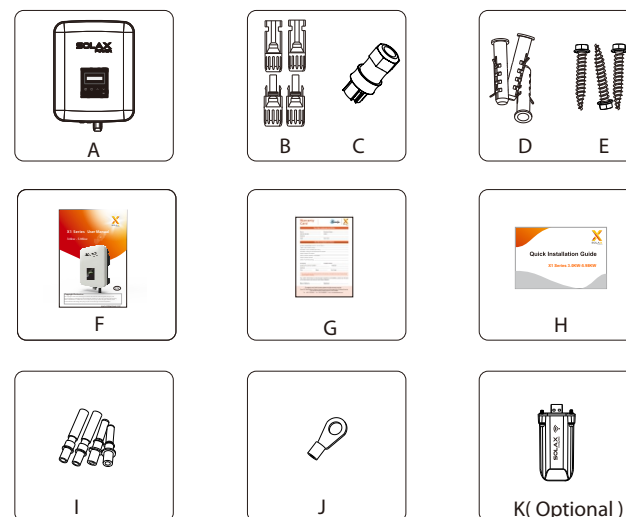
## 5. Installation

### 5.1 Check for Transport Damage

Make sure the inverter is intact during transportation. If there are some visible damages, such as cracks, please contact your dealer immediately.

### 5.2 Packing Lists

Open the package and fetch out the product, check the accessories at first. The packing list shows as below.



Object	Quantity	Description
A	1	X1 series inverter (with bracket)
B	4	DC connector
C	1	AC connector
D	3	Expansion tube
E	3	Expansion screw
F	1	Product manual
G	1	Warranty card
H	1	Quick installation guide
I	4	DC pin contact(2*positive, 2*negative)
J	1	Earth terminal
K	1	Pocket WiFi/LAN/GPRS( Optional )