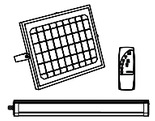
Essential SmartBright Solar Waterproof

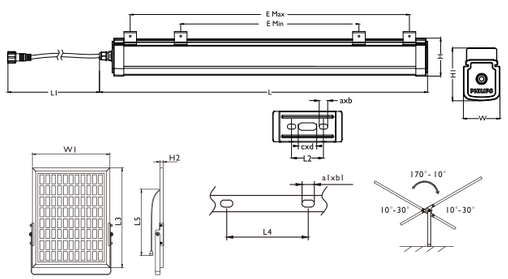
WT080C Mounting instruction



500Hrs Salt Spray Test | IP65

Type Number	Flux(lm)	Battery type	Battery parameter	PV parameter	Remote type	Remote distance	Sensor type	CCT	Working temperature	Weight
WT080C LED16/865 Solar	1600lm	LifePO4	6.4V/6AH	9V/8W	Infrared	≤4m	5.8G microwave sensor	6500K	0-50°C	1.82KG
WT080C LED16/840 Solar	1600lm							4000K		
WT080C LED16/830 Solar	1500lm							3000K		
WT080C LED25/865 Solar	2500lm		12.8V/6AH	18V/15W				6500K		2.71KG
WT080C LED25/840 Solar	2500lm							4000K		
WT080C LED25/830 Solar	2300lm							3000K		
WT080C LED36/865 Solar	3600lm			18V/20W				6500K		2.95KG
WT080C LED36/840 Solar	3600lm							4000K		
WT080C LED36/830 Solar	3300lm							3000K		

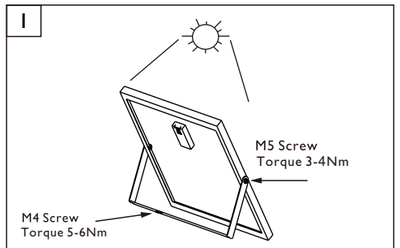
Unit: mm



TYPE	W	L	L1	L2	axb	cxd	E Min	E Max	H	H1
WT080C LED16	67	450	2500	26	7x4	15x6	212	352	75	87
WT080C LED25		650					352	552		
WT080C LED36		650					352	552		

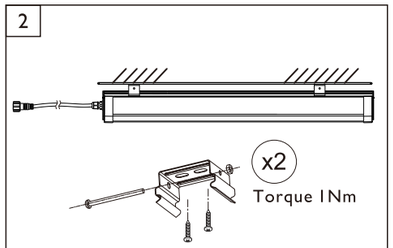
TYPE	W1	L3	L4	a1xb1	L5	H2
WT080C LED16	205	250	200	15x5	2500	16.5
WT080C LED25	235	390	340	15x5	2500	16.5
WT080C LED36	300	390	340	15x5	2500	16.5

1



Install the solar PV panel on the open roof or wall facing towards the Sun at noon without shade.

2



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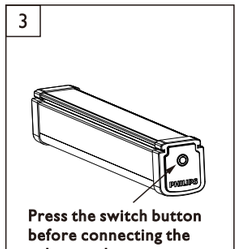
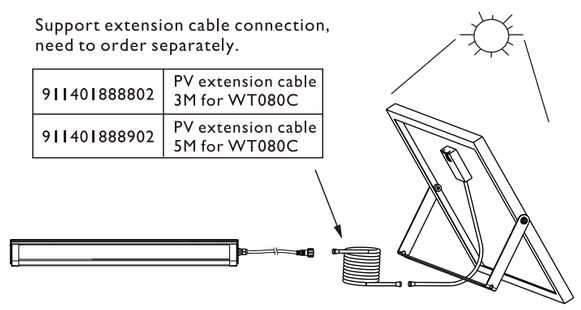


Press the switch button before connecting the solar panel

4

Support extension cable connection, need to order separately.

911401888802	PV extension cable 3M for WT080C
911401888902	PV extension cable 5M for WT080C



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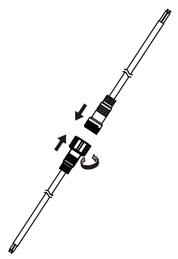

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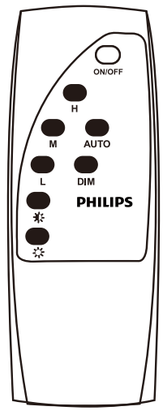


Remote Controller Function:

Wake-up(ON)/Sleep(OFF), the luminaire turns on and keep the same working mode as last mode setting.
Putting the luminaire under sunlight can wakeup the luminaire.

Auto(Default mode): The luminaire automatically turns ON at 20% brightness as solar panel detects the sunset. If motion is detected, the brightness will be increased to 100% for 15 seconds. Turns off at battery low.(Approximately 5hours of operation from the fully charged battery).

H: The luminaire automatically turns ON at 30% brightness as solar panel detects the sunset. If motion is detected, the brightness will be increased to 100% for 15 seconds. Turns off at battery low.(Approximately 3hours of operation from the fully charged battery).

M: The luminaire automatically turns ON at 20% brightness as solar panel detects the sunset. If motion is detected, the brightness will be increased to 100% for 15 seconds.Turns off at battery low. (Approximately 5hours of operation from the fully charged battery).

L: The luminaire automatically turns ON at 10% brightness as solar panel detects the sunset. If motion is detected, the brightness will be increased to 100% for 15 seconds. Turns off at battery low.(Approximately 8hours of operation from the fully charged battery).

DIM: Time-control dimming mode (motion sensor disabled), as solar panel detects the sunset, the luminaire automatically turns ON at 40% brightness for first 0.5hour, 20% brightness for next 3hours, and 10% brightness untill battery low. (Approximately 12hours of operation from the fully charged battery).

PARTIAL: Constant lighting mode (motion sensor disabled), the luminaire turns ON at 20% brightness. Turns off at battery low. (Approximately 5hours of operation from the fully charged battery).

FULL: Constant lighting mode (motion sensor disabled), the luminaire turns ON at 100% brightness. Turns off at battery low. (Approximately 3hours of operation from the fully charged battery).

Notes:

1.Before connecting the luminaire and solar panel, please press the switch button on the luminaire to active the charge controller inside the product and then use the remote control to set the different working mode.

Switch button

2.The factory default working mode for this product is AUTO.

3.To go into Sleep mode (for storage purpose), please press the switch button on the luminaire.

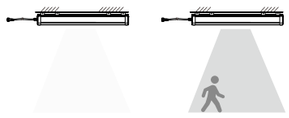
4.LED indication on luminaire: Red ON (Charging), Green ON (Fully Charged), Blue ON (Battery low, keep 1min before blue indicator off)

5.Press "ON/OFF" key for 3seconds, and the luminaire will be forced to turn on at the daytime.

6.When the luminaire turns on by remote controller during the daytime, the battery cannot be charged by the solar panel.

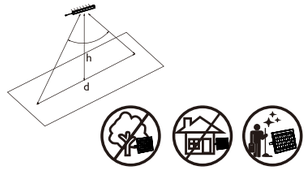
7.In the constant lighting mode(PARTIAL and FULL),the light sensor and microwave sensor and time control function are all disabled. The luminaire will keep the setting brightness till the battery low.

Sensor detective range:



Not detected Detected

h(m)	d(m)	d/2(m)
4	8	4



Application NOTES:

1.The product must be installed in a sunny place that is not shaded by trees, buildings, wall, etc. so that the solar panel can receive the maximum sunlight for charging the battery inside the luminaire.

2.Charge the product under bright sunlight without any shade for 8hours before first use.

3.After installation the working modes can be set by infrared remote controller.(Note: The remote controller cannot set any working mode when the light OFF at daytime.)

4.The product does not need any external electrical connection. It works 100% on solar energy.

5.The product works on Dusk and Dawn principle once it is activated. From Sunrise to Sunset the battery charges (luminaire OFF) and from Sunset to Sunrise the battery discharges (luminaire ON). The luminaire will not switch ON incase any light source nearby from which light is falling on the solar panel of the luminaire.

6.The solar waterproof can be forced to turn on by remote controller at the daytime. Please noted that the battery cannot be charged through the solar panel when the light ON at the daytime.

7.The battery backup time will reduce if the ambient temperature is <0degree Celsius or >50degree Celsius.

8.The light source, battery, cable, controller/sensor and all other parts inside the luminaire fixture are not replaceable. The luminaire fixture is not openable. Please replace the whole product when it reaches the end of life.

9.The product is designed for semi-outdoor and indoor use, like under canopy, small offices, amenity, covered parking and non-functional areas of warehouse factory, etc. where enough amount of sunlight is available in the daytime to charge the battery. Incase partial solar charging, the product may not charge completely leading to less light on time during night.

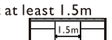
10.The product equipped with microwave motion sensor, and the sensor delay time 15secs. In case the sensor is continuously activated due to instances such as any human being, animal, moving object triggering the sensor, it will affect the light on time of the luminaire.

11.The detection range of the sensor is related to the movement speed/the size of movement object/the installation height and angle/the installation site/reflectors around the sensor, etc. The detection range given on the instruction is typical values and tested in an outdoor open area with a personnel condition of 165cm height/65kg weight.

12.Microwave motion sensor cannot penetrate metal. When the installation environment is surrounded by metal reflectors, microwave motion sensor will be triggered many times and continuously due to reflection from metal surfaces.

13.Please ensure that there is no moving object such as fan, motor, water stream and rainwater around the luminaire, otherwise the motion sensor may false trigger frequently.

14.When multiple luminaires are installed side-by-side in the same direction, the distance between each two luminaires should be kept at least 1.5m to avoid mutual interference.



15.The product is made of high-quality polycarbonate material suitable for outdoor usage up to three years. Please exercise caution in using this product when it reaches the end of its service lifetime (3years). Monthly maintenance is required. Please visually inspect the product to avoid any potential risk of damage after its service lifetime.

16.User of this product is requested to follow local waste disposal, separation and waste collection regulations applicable in the country/state where this product is being used since there is inbuilt battery in the luminaire. Please act accordingly to the local rules and do not dispose old product and packaging without compliance of those rules. The correct disposal of product and packaging will help to prevent negative consequences to the environment, health and well-being of inhabitants. Product contains battery and that should dispose of separately from other municipal waste via designated collection facilities in compliance with local rules and regulations. When disposing the product, the battery should be removed by a trained and authorized professional.

17.The product contains Lithium Ferro Phosphate battery. It is important to note that if the product is not used (charged) within XX months from the date of manufacturing (as in the product, package label) the battery will be in the state of over discharged condition due to its self-discharge properties and the product is not likely to switch on and performance of the product will be affected, such as but not limited to reduced lumen output, faster dimming, shorter light ON time etc.

To ensure battery performance, do not exceed the storage time as defined below:

-up to 11 months (0~25°C, ≤75%RH)

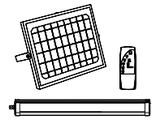
-up to 6 months (0~35°C, ≤75%RH)

-up to 3 months (0~45°C, ≤75%RH)

In case the storage condition and timeline not complied, the warranty of the product shall be void. For detailed warranty terms and conditions please reach out to the authorized Signify representative/partner.

Essential SmartBright Solar Waterproof

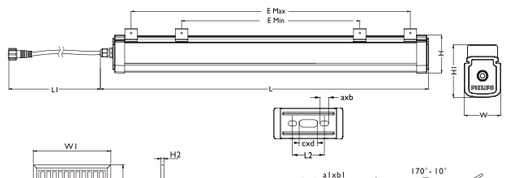
Instruksi Pemasangan WT080C



500Hrs Salt Spray Test | IP65

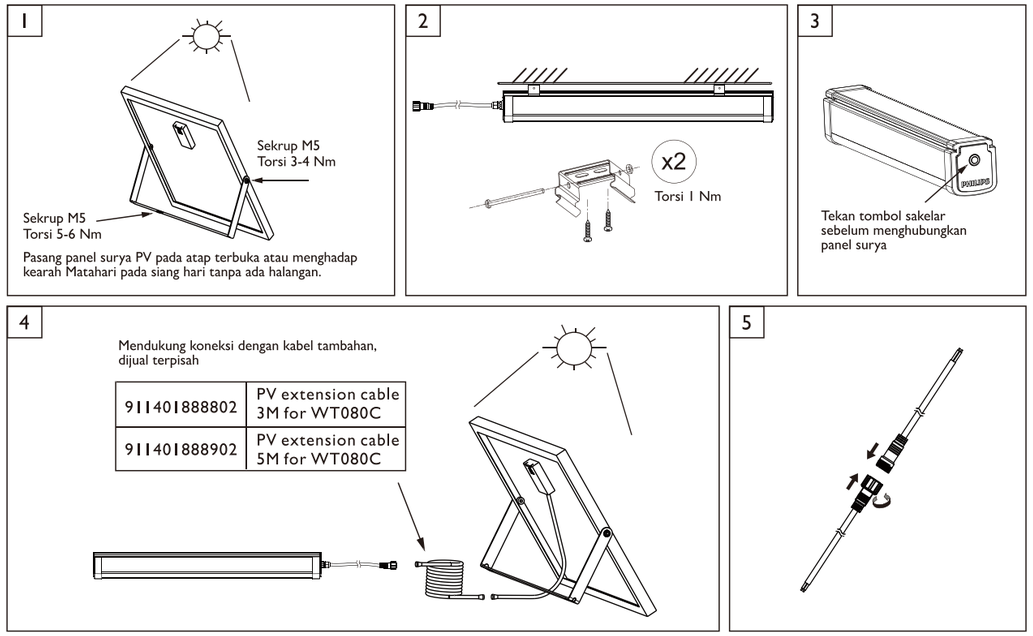
Tipe	Flux(lm)	Tipe Baterai	Parameter Baterai	Parameter PV	Tipe Kendali	Jarak Kendali	Tipe Sensor	CCT	Temperatur Operasi	Berat
WT080C LED16/865 Solar	1600lm	LifePO4	6.4V/6AH	9V/8W	Infrared	≤4m	5.8G microwave sensor	6500K	0-50°C	1.82KG
WT080C LED16/840 Solar	1600lm							4000K		
WT080C LED16/830 Solar	1500lm							3000K		
WT080C LED25/865 Solar	2500lm		12.8V/6AH	18V/15W				6500K		2.71KG
WT080C LED25/840 Solar	2500lm							4000K		
WT080C LED25/830 Solar	2300lm							3000K		
WT080C LED36/865 Solar	3600lm			18V/20W				6500K		2.95KG
WT080C LED36/840 Solar	3600lm							4000K		
WT080C LED36/830 Solar	3300lm							3000K		

Unit: mm



TIPE	W	L	L1	L2	axb	cxd	E Min	E Max	H	H1
WT080C LED16	67	450	2500	26	7x4	15x6	212	352	75	87
WT080C LED25		650					352	552		
WT080C LED36		650					352	552		

TIPE	W1	L3	L4	a1xb1	L5	H2
WT080C LED16	205	250	200	15x5	2500	16.5
WT080C LED25	235	390	340	15x5	2500	16.5
WT080C LED36	300	390	340	15x5	2500	16.5



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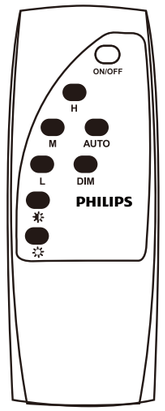


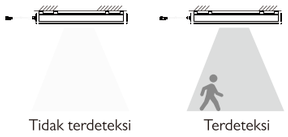
Fungsi Remot Kontrol:
Wake-up (ON)/Sleep (OFF), Luminer menyala dan mempertahankan mode kerja yang sama seperti pengaturan mode terakhir. Menempatkan lampu di bawah sinar matahari dapat menghidupkannya.
Auto (Default mode): Luminer secara otomatis menyala pada kecerahan 20% saat panel surya mendeteksi matahari terbenam. Jika gerakan terdeteksi, kecerahan akan ditingkatkan hingga 100% selama 15 detik. Mati saat baterai hampir habis. (Sekitar 5 jam pengoperasian dari baterai yang terisi penuh).
H: Luminer secara otomatis menyala pada kecerahan 30% saat panel surya mendeteksi matahari terbenam. Jika gerakan terdeteksi, kecerahan akan ditingkatkan hingga 100% selama 15 detik. Mati saat baterai lemah. (Sekitar 3 jam pengoperasian dari baterai yang terisi penuh).
M: Luminer secara otomatis menyala pada kecerahan 20% saat panel surya mendeteksi matahari terbenam. Jika gerakan terdeteksi, kecerahan akan ditingkatkan hingga 100% selama 15 detik. Mati saat baterai lemah. (Sekitar 5 jam pengoperasian dari baterai yang terisi penuh).
L: Luminer secara otomatis menyala pada kecerahan 10% saat panel surya mendeteksi matahari terbenam. Jika gerakan terdeteksi, kecerahan akan ditingkatkan hingga 100% selama 15 detik. Mati saat baterai lemah. (Sekitar 8 jam pengoperasian dari baterai yang terisi penuh).
DIM: Mode peredupan kontrol waktu (sensor gerak dinonaktifkan), saat panel surya mendeteksi matahari terbenam, luminer secara otomatis AKTIF pada kecerahan 40% untuk 0,5 jam pertama, kecerahan 20% untuk 3 jam berikutnya, dan 10% kecerahan hingga baterai lemah. (Kira-kira saya 2 jam pengoperasian dari baterai yang terisi penuh).

SEBAGIAN : Mode pencahayaan konstan (sensor gerak dinonaktifkan), luminer menyala pada kecerahan 20%. Mati saat baterai lemah. (Sekitar 5 jam pengoperasian dari baterai yang terisi penuh).

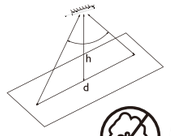
PENUH : Mode pencahayaan konstan (sensor gerak dinonaktifkan), luminer menyala pada kecerahan 100%. Mati saat baterai lemah. (Sekitar 3 jam pengoperasian dari baterai yang terisi penuh).

Catatan:
1. Sebelum menghubungkan luminer dan panel surya, tekan tombol sakelar pada luminer untuk mengaktifkan pengontrol muatan di dalam produk dan kemudian gunakan remote control untuk mengatur mode kerja yang berbeda.
2. Mode kerja bawaan pabrik untuk produk ini adalah AUTO.
3. Untuk masuk ke mode Tidur (untuk tujuan penyimpanan), silakan tekan tombol sakelar pada luminer.
4. Indikasi LED pada luminer: Merah AKTIF (Mengisi daya), Hijau AKTIF (Terisi Penuh), Biru AKTIF (Baterai hampir habis, menyala selama 1 menit sebelum indikator biru mati)
5. Tekan tombol "ON/OFF" selama 3 detik, dan luminer akan menyala secara paksa pada siang hari.
6. Bila luminer dinyalakan dengan remote kontrol pada siang hari, baterai tidak dapat diisi oleh panel surya.
7. Dalam mode pencahayaan konstan (SEBAGIAN dan PENUH), sensor cahaya dan sensor gelombang mikro serta fungsi kontrol waktu semuanya dinonaktifkan. Luminer akan menjaga kecerahan pengaturan hingga baterai lemah.

Jarak deteksi sensor:



t(m)	d(m)	d/2(m)
4	8	4



CATATAN Pemasangan:

1. Produk harus dipasang di tempat yang cerah dan tidak ternaungi oleh pepohonan, gedung, tembok, dll agar panel surya dapat menerima arus secara maksimal untuk mengisi daya baterai di dalam luminer.
2. Isi daya produk di bawah sinar matahari yang cerah tanpa naungan apa pun selama 8 jam sebelum digunakan pertama kali.
3. Setelah instalasi, mode kerja dapat diatur dengan remote kontrol inframerah. (Catatan: Remote kontrol tidak dapat mengatur mode kerja apa pun saat lampu MATI di siang hari.)
4. Produk tidak memerlukan sambungan listrik eksternal. Ia bekerja 100% pada energi matahari.
5. Produk bekerja berdasarkan prinsip Senja dan Fajar setelah diaktifkan. Dari Matahari Terbit hingga Matahari Terbenam, baterai terisi (lampu MATI) dan dari Matahari Terbenam hingga Matahari Terbit, baterai akan habis (luminer ON). Luminer tidak akan menyala jika ada sumber cahaya di dekatnya yang menyebabkan cahaya jatuh ke atasnya panel surya luminer.
6. Tahan air tenaga surya dapat dipaksa menyala dengan remote kontrol di siang hari. Harap dicatat bahwa baterai tidak dapat diisi melalui panel surya saat lampu menyala di siang hari.
7. Waktu pencadangan baterai akan berkurang jika suhu sekitar <0 derajat Celcius atau >50 derajat Celcius.
8. Sumber cahaya, baterai, kabel, pengontrol/sensor, dan semua bagian lain di dalam perlengkapan luminer tidak dapat diganti. Perlengkapan luminernya tidak yg dpt dibuka. Harap ganti seluruh produk ketika sudah mencapai akhir masa pakainya.
9. Produk ini dirancang untuk penggunaan semi-outdoor dan indoor, seperti di bawah kanopi, kantor kecil, fasilitas, parkir tertutup, dan area non-fungsional. pabrik gudang, dll. di mana tersedia cukup sinar matahari di siang hari untuk mengisi daya baterai. Jika pengisian tenaga surya sebagian, produk mungkin tidak terisi penuh sehingga menyebabkan berkurangnya waktu pencahayaan di malam hari.
10. Produk dilengkapi dengan sensor gerak gelombang mikro, dan waktu tunda sensor 15 detik. Jika sensor terus diaktifkan karena contoh seperti manusia, hewan, benda bergerak yang memicu sensor, hal ini akan mempengaruhi waktu nyala lampu.
11. Jangkauan deteksi sensor berhubungan dengan kecepatan gerakan/ukuran objek pergerakan/tinggi dan sudut pemasangan/pemasangan lokasi/reflektor di sekitar sensor, dll. Rentang deteksi yang diberikan pada instruksi adalah nilai tipikal dan diuji di area terbuka luar ruangan dengan a kondisi personel tinggi 165cm/berat badan 65kg.
12. Sensor gerak gelombang mikro tidak dapat menembus logam. Ketika lingkungan pemasangan dikelilingi oleh reflektor logam, sensor gerak gelombang mikro akan terpicu berkali-kali dan terus menerus akibat pantulan dari permukaan logam.
13. Pastikan tidak ada benda bergerak seperti kipas angin, motor, aliran air, dan air hujan di sekitar luminer, jika tidak, sensor gerak dapat pemicu palsu sering.
14. Bila beberapa luminer dipasang berdampingan dalam arah yang sama, jarak antara masing-masing dua luminer harus dijaga setidaknya 1,5 m

untuk menghindari campur tangan satu sama lain.
15. Produk terbuat dari bahan polikarbonat berkualitas tinggi yang cocok untuk penggunaan di luar ruangan hingga tiga tahun. Harap berhati-hati dalam menggunakan ini produk ketika mencapai akhir masa pakainya (3 tahun). Pemeliharaan bulanan diperlukan. Harap periksa produk secara visual untuk menghindarinya potensi risiko kerusakan setelah masa pakainya.
16. Pengguna produk ini diminta untuk mengikuti peraturan pembuangan, pemisahan, dan pengumpulan limbah setempat yang berlaku di negara/negara bagian tempat produk ini digunakan karena terdapat baterai internal di dalam luminer. Harap bertindak sesuai dengan peraturan setempat dan jangan membuang produk lama dan pengemasan tanpa mematuhi aturan tersebut. Pembuangan produk dan kemasan yang benar akan membantu mencegah dampak negatif terhadap produk lingkungan hidup, kesehatan dan kesejahteraan penduduknya. Produk mengandung baterai dan harus dibuang secara terpisah dari limbah kota lainnya melalui fasilitas pengumpulan yang ditunjuk sesuai dengan aturan dan peraturan setempat. Saat membuang produk, baterai harus dilepas oleh orang yang terlatih dan profesional yang berwenang.
17. Produk mengandung baterai Lithium Ferro Phosphate. Penting untuk diperhatikan jika produk tidak digunakan (dibebankan) dalam waktu XX bulan sejak tanggal manufaktur (seperti pada produk, label kemasan) baterai akan berada dalam kondisi kelebihan daya karena sifat self-discharge dan produk kemungkinan besar tidak akan menyala dan kinerja produk akan terpengaruh, seperti namun tidak terbatas pada berkurangnya keluaran lumen, peredupan lebih cepat, lebih pendek waktu menyala dll.

Untuk memastikan kinerja baterai, jangan melebihi waktu penyimpanan seperti yang ditentukan di bawah ini:
-Hingga 11 bulan (0~25°C, ≤75%RH)
-Hingga 6 bulan (0~35°C, ≤75%RH)
-Hingga 3 bulan (0~45°C, ≤75%RH)
Jika kondisi dan jangka waktu penyimpanan tidak dipatuhi, garansi produk akan batal. Untuk syarat dan ketentuan garansi terperinci, silakan hubungi kepada perwakilan/mitra resmi Signify.