

P O W E R
- I N G ●
T O M O -
R R O W ●



Microinverter Solution

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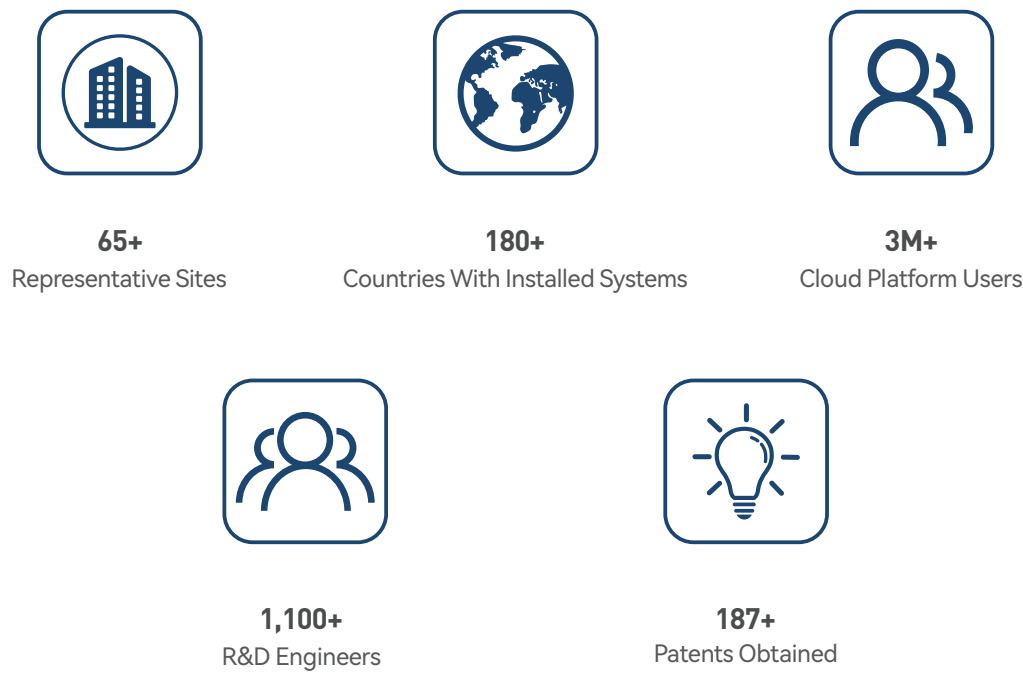


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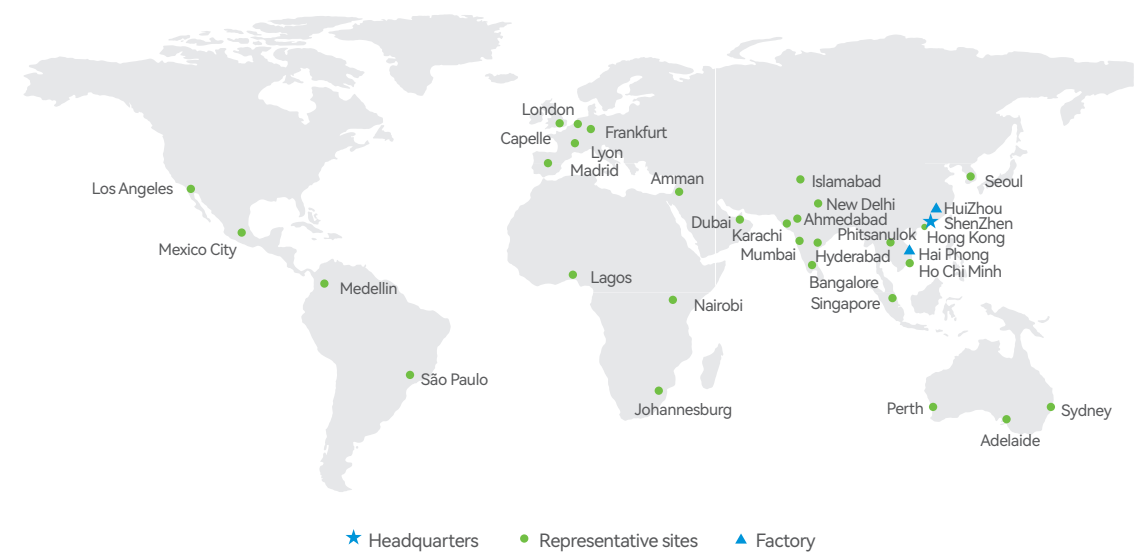
2025

GROWATT

OUR STRENGTH IN DATA



GLOBAL NETWORK



HONORS & AWARDS

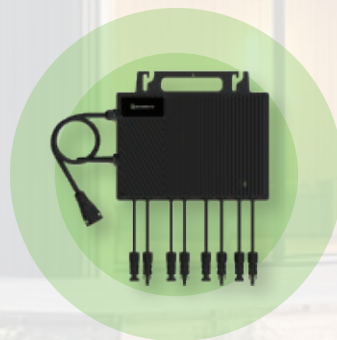


TOP BRAND PV AWARDS



NEO Sereis Microinverter

Our full lineup of microinverters with a wide power range, give you the freedom to create your own system, reduce your initial investment and answer every need.



Higher Yields

2 or 4 MPPTs for various orientations
Max.DC voltage 60V
String current 18A, adapt to 700W+PV modules



Safe and Reliable

IP67 protection degree
Anti-islanding protection
No PID potential issue
No arc-fault circuit potential risk



Smart

Offering WiFi & LoRa wireless communication solutions
Intelligent panel-level monitoring
Remote firmware upgrade support
Online remote maintenance

NEO 600-1000M-X



- 2 independent MPP trackers
- Reactive power control
- Rapid shutdown function
- IP67 protection degree
- Support WiFi/LoRa communication



Datasheet	NEO 600M-X(WiFi)	NEO 800M-X(WiFi)	NEO 1000M-X(WiFi)
Input data (DC)			
Recommended PV module power(STC) range	240W to 405W+	320W to 540W+	400W to 670W+
Max. DC voltage	60V		
Start voltage	16V		
Nominal voltage	16~60V		
MPP voltage range	28V~60V		
No. of MPP trackers	2		
No. of PV strings per MPP tracker	1/1		
Max. input current per MPP tracker	18A		
Max. short-circuit current per MPP tracker	23A		
Output data (AC)			
AC nominal power	600W	800W	1000W
Max. AC apparent power	600VA	800VA	1000VA
Nominal AC voltage/range	230V (180-253V)		
Adjustable output voltage range	150V~280V		
AC grid frequency	50/60 Hz		
Adjustable output frequency range	45~55Hz/55~65 Hz		
Rated output current	2.61A	3.48A	4.35A
Power factor	0.8 leading ... 0.8 lagging		
THDi	<3%		
AC grid connection type	Single phase		
Maximum units per 12AWG branch*1	8	6	4
Maximum units per 12AWG branch*1	10	8	6
Efficiency			
Max.efficiency	97.3%		
MPPT efficiency	99.5%		
Night power consumption	30mW		
Protection devices			
DC reverse polarity protection	Yes		
AC surge protection	Type III		
AC short-circuit protection	Yes		
Ground fault monitoring	Yes		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Insulation resistance monitoring	Yes		
General data			
Dimensions (W / H / D)	270/252/41.5mm		
Weight	3.1kg		
Operating temperature range	-40°C ... +65°C		
Altitude	4000m		
Topology	High frequency transformers, Galvanically isolated		
Cooling	Natural convection-No Fans		
Protection degree	IP67		
Relative humidity	0~100%		
DC connection	VP-D4/PV-JK00M2		
AC connection	plug and play		
Interfaces			
Display	LED+APP		
Monitoring	WiFi version/LoRa version (optional)*		
Warranty	12 years		
CE, N 4105, EN 50549-1, UNE 217002, NTS Type A, C10/C11, CEI 0-21, G98, IEC 61727&IEC 62116			

* Refer to local requirements for exact number of microinverters per branch.
* The AC Voltage and Frequency Range may vary depending on specific country grid standard.
* Growatt microinverter is available in two versions: WiFi and LoRa, make sure to select the appropriate version when purchasing.
* All specifications are subject to change without notice.

NEO 1600-2500M-X2



- 4 independent MPP trackers
- Up to 2500VA output power
- Max.18A string current
- Support WiFi/LoRa communication
- IP67 protection degree



Datasheet	NEO 1600M-X2	NEO 1800M-X2	NEO 2000M-X2	NEO 2250M-X2	NEO 2500M-X2
Input data (DC)					
Max. recommended PV power (for module STC)	320W to 530W+	360W to 600W+	400W to 670W+	450W to 700W+	500W to 700W+
Max. DC voltage	60V				
Start voltage	20V				
Nominal voltage	16~60V				
MPP voltage range	16V-55V				
No. of MPP trackers	4				
No. of PV strings per MPP tracker	1/1				
Max. input current per MPP tracker	18A				
Max. short-circuit current per MPP tracker	20A				
Output data (AC)					
AC nominal power	1600W	1800W	2000W	2550W	2500W
Max. AC apparent power	1600VA	1800VA	2000VA	2250VA	2500VA
Nominal AC voltage (range*)	220V/230V/240V(180~275V)				
Nominal AC current	7.27A@220V 6.96A@230V 6.67A@240V	8.18A@220V 7.83A@230V 7.5A@240V	9.09A@220V 8.7@230V 8.33A@240V	10.23A@220V 9.78A@230V 9.38A@240V	11.36A@220V 10.87A@230V 10.42A@240V
AC grid frequency (range*)	50Hz(45~55Hz), 60Hz(55~60Hz)				
Max. output current	7.27A	8.18A	9.09A	10.23A	11.36A
Power factor	>0.99				
Adjustable power factor	0.8 leading~0.8 lagging				
THDi	<3%				
AC grid connection type	Single phase				
Efficiency					
Max.efficiency	96.5%				
MPPT efficiency	99.5%				
Protection devices					
DC reverse polarity protection	Yes				
Insulation resistance monitoring	Yes				
AC surge protection	Type III				
AC short-circuit protection	Yes				
Grid monitoring	Yes				
General data					
Dimensions (W / H / D)	396/270/45mm				
Weight	5.1kg				
Operating temperature range	-40°C ... +65°C				
Noise emission (typical)	≤ 25 dB(A)				
Altitude	4000m				
Nighttime power consumption	< 50mW				
Topology	Transformer				
Cooling	Nature convection				
Protection degree	IP67				
Relative humidity	0~100%				
DC connection	VP-D4 / PV-JK00M2				
AC connection	Plug and play				
Interfaces					
Display	LED +APP				
Monitoring	WiFi version/LoRa version (optional)*				
Warranty	12 years				
CE, N4105, EN 50549-1, C10/C11, G98					

* The AC Voltage Range may vary depending on specific country grid standard.
* Growatt microinverter is available in two versions: WiFi and LoRa, make sure to select the appropriate version when purchasing
* All specifications are subject to change without notice.

ShineWeLink



- Support up to 5 inverters
- Support real-time monitoring on each module
- Communication distance is up to 200m
- Remote firmware upgrade
- Local configuration by Bluetooth



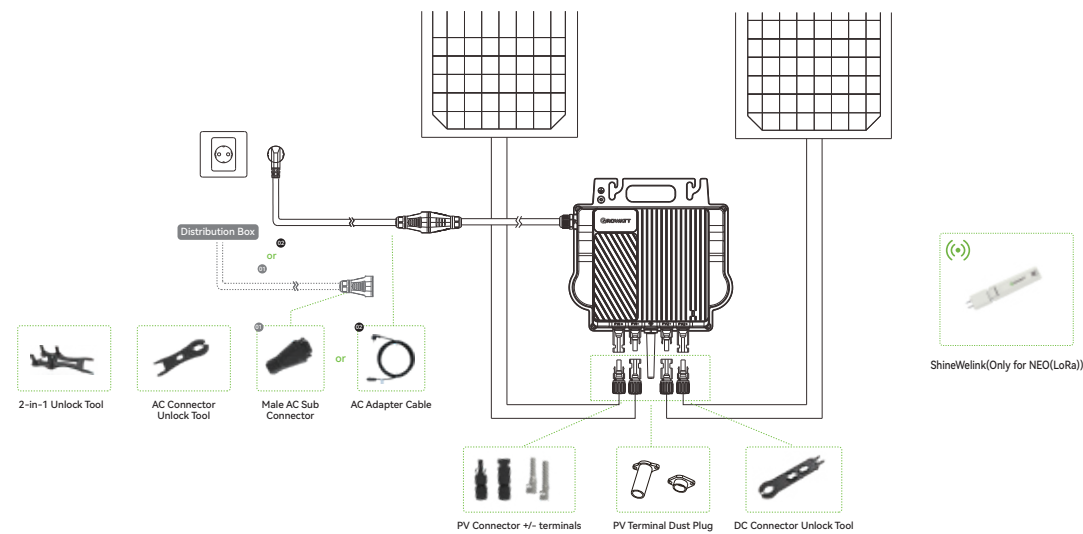
Datasheet	ShineWeLink
Wireless parameters (standard &frequency band)	
RF-LoRa	868/915 MHz
BLE	BLE4.2 and above, 2.4GHz
WiFi	2.4GHz
Device management	
Number of managed devices	5
Communication method	LoRa
RF wireless maximum communication distance	200m (50m when through the wall)
Internet access	Wi-Fi
Application parameters	
Supported servers	ShineServer
Server communication	TLS-TCP&MQTT
User configuration	APP configuration
Data transmission interval	5 minutes
Default server address	mqtt.growatt.com
General specifications	
Dimensions (L/W/H)	90mm * 32mm * 8mm
Weight	37.9g
Power supply	5V
Working current	500mA
Led	1 LED indicator
Power consumption	1W
Ambient temperature range	-30 to 65 °C
Humidity	5-95% (non condensing)
Protection grade	IP 20
Installation method	USB direct plug
Warranty	1 year
RoHS、CE、ANATEL	

* ShineWelink only works with the LoRa communication version of the NEO microinverter

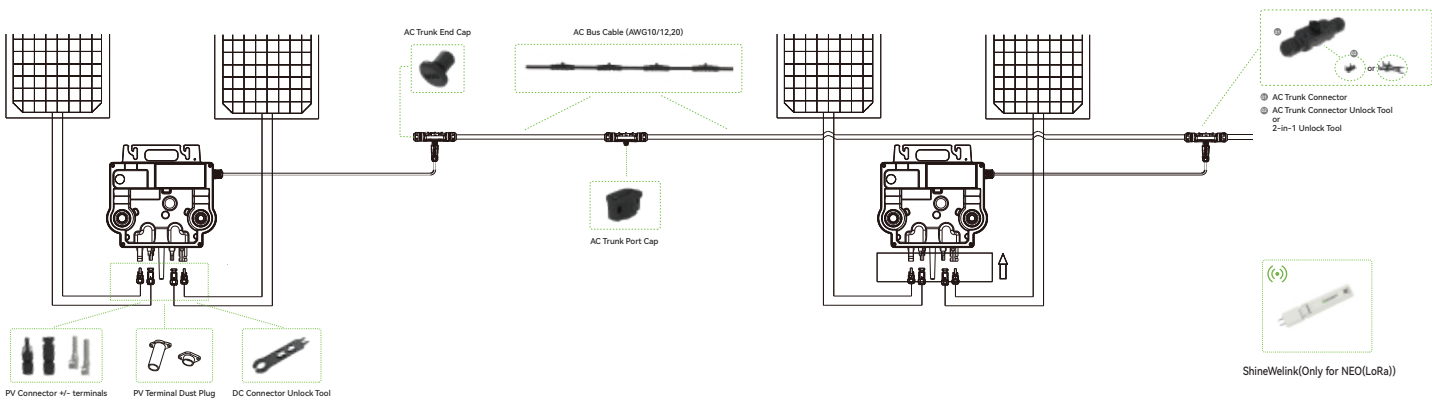
Cable Accessories for Microinverter of NEO Series

The NEO cable system is a revolutionary cabling solution designed for the NEO series microinverters, which can be used in PV systems with either one or multiple microinverters. Its user-friendly plug-and-play design makes the installation easier, faster, and more reliable.

Single-Microinverter System



Multi-Microinverter System



Single-Microinverter System

Male AC Sub Connector

The Male AC Sub Connector is suitable for applications with a single Microinverler. The Male AC Sub Connector can be used to connect the Ac Branch Cable of Microinverter to the distribution panel.



AC Adapter Cable(5m)

The AC Adapter Cable is used for the connection of the Microinverter AC terminal to the European standard socket with a wire length of 5 meters. This accessory is suitable for single applications (balcony PV) scenarios in Europe.



Technical Specifications

Male AC Sub Connector

Model	Male AC Sub Connector	
General parameters		
Pin number	2P+PE (L, N, PE)	
Rated current	12A(1.5mm²/16AWG)/6A(1.0mm²/18AWG)	
Rated voltage	300V	
Connection Parameter		
Applicable cable specification	16/18AWG	
Applicable cable outer diameter	7.0-9.5mm	
Cable connection type	Screw pressing	
Mechanical Data		
Ambient temperature range	-40~85℃	
Protection rating	IP68	
Flame retardant	UL94-V0	
Compliance		
Product standard	PPP 59015A:2013, ANSI/UL 6703-2021	
RoHS compliant	Yes	

AC Adapter Cable(5m)

Model	AC Adapter Cable(5m)	
General parameters		
Cable Type	PV07AC-F 3G1.5mm ²	TC-ER 18AWG/3C
Rated current	12A(1.5mm ² /16AWG)	6A(1.0mm ² /18AWG)
Rated voltage	600V	600V
Cable length	5m	
Ambient temperature range	-40~90℃	
AC Plug Type	PE-307	
Product standard	2PFG 1940(Cable)	UL44 UL1277 UL1581 RoHS(Cable)
	PPP59015A:2013, ANS/UL6703-2021 (Connector)/TUV (Plug)	

Ordering Options

Model	Cable Length(m)	Number per Box	Box Dimensions(cm)
Male AC Sub Connector	/	TBD	36.5*36.5*35.5
AC Adapter Cable(18AWG)	5	TBD	34.5*34.5*37.5
AC Adapter Cable(1.5mm ²)	5	TBD	34.5*34.5*37.5

Multi-Microinverter System

AC Trunk Cable_20T_10/12AWG

The AC Trunk Cable, with pre-mounted AC Trunk Connectors evenly distributed, is used to connect the Microinverter to the distribution panel. Growatt offers AC Trunk Cable_20T_10/12AWG



AC Trunk Connector (10/12AWG)

The AC Trunk Connector can be used to connect with the AC Branch Cable of a single Microinverter or multiple Microinverters by assembling the AC Trunk Cable with a couple of hand-in-hand AC Trunk Connectors.



AC Trunk Port Cap

The AC Trunk Port Cap is used to protect the unused AC trunk connector on site



AC Trunk End Cap

The AC Trunk End Cap is used to protect port of the AC Trunk Connector and prevent water and dust at the end of AC Trunk Cable.



AC Sub Connector Unlock Tool

The AC Sub Connector Unlock Tool is used to remove the AC branch wire from the AC Trunk Connector.



AC Trunk Connector Unlock Tool

The AC Trunk Connector Unlock Tool is used to remove the cover of the AC Trunk Connector for the convenience of removing and assembling the AC cable.



2-in-1 Unlock Tool

2-in-1 Unlock Tool, is used to remove the AC branch wire from the AC Trunk Connector and is used to remove the cover of the AC Trunk Connector for the convenience of removing and assembling the AC cable.



AC Trunk Cable

Model	AC Trunk Cable	
General parameters		
Cable type	10AWG	12AWG
Rated voltage	300V	
Cable outer diameter	12.5± 0.4mm	11.1± 0.3mm
Ambient temperature range	-40°C~+85°C	
AC Trunk Connector spacing	2m	2m
Number of AC Trunk Connectors per AC Trunk Cable	20T	20T
Single AC Trunk Cable length	43.165m	43.165m
Compliance		
Product standard	PPP 59015A:2013, , ANSI/UL 6703-2021	
RoHS compliant	Yes	

Ordering Options

Model	Number per Box	Box Dimensions(cm)	Weight (kg)	AC bus rated current value
AC Trunk Cable_20T_10AWG	1	36.5*36.5*35.5	15.2	25
AC Trunk Cable_20T_12AWG	1	36.5*36.5*35.5	14.6	32

AC Trunk Connector

Model	AC Trunk Connector
General parameters	
Pin number	2P+PE (L, N, PE)
Rated current	30 A(4mm2/12AWG)/40A(6mm2/10AWG)
Rated voltage	300V
Contact resistance	1mΩ
Connection Parameters	
Applicable cable specification	10/12AWG
Applicable cable outer diameter	10-13.5mm
Cable connection type	Screw pressing
Sub connector connection type	Crimping
Mechanical Data	
Ambient temperature range	-40~85°C
Dimensions (L*W*H mm)	155*40*45.5
Protection rating	IP68
Compliance	
Flame retardant	UL94-V0
Product standard	PPP 59015A:2013, , ANSI/UL 6703-2021
RoHS compliant	Yes

DC Extension Cable

Model	DC Extension Cable
Cable	
Cable type	PV1-F 1*4mm2
Rated current	55A
Rated voltage	1000Vdc
Cable length	1m
Ambient temperature range	-40~90°C
Product standard	2PFG 1169
DC Connector	
Manufacturer	Vaconn
Type	Female: VP-D4B-CHSF0+ YF-H4-CSF Male: VP-D4B-CHSM0+YF-H4-CSM
Rated current	30A
Rated voltage	1100Vdc
Rated impulse withstand voltage	6400Vac
Over- voltage category	III
Ambient temperature range	-40~85°C
Protection rating	IP68
Flame retardant	UL 94-V0
Product standard	IEC 62852
RoHS compliant	Yes

ShineWeLink

Type	Model	Description
ShineWeLink	ShineWeLink	ShineWeLink *1 (supports up to 5 Microinverters)
	AC/DC Power Adapter	AC/DC Power Adapter *1 (delivered with ShineWeLink)

AC Accessories

Type	Model	Description
AC Trunk Cable	AC Trunk Cable_20T_12AWG	AC Trunk Connector *20
		AC Cables (Cable Length: 2m, 12AWG) *20
	AC Trunk Cable_20T_10AWG	AC Trunk Connector *20
		AC Cables (Cable Length: 2m, 10AWG) *20
AC Trunk Connector	BC05A-ML3-40A	AC Trunk Connector *1
AC Sub Connector Unlock Tool	MLBLRTOL	AC Sub Connector Unlock Tool *1
AC Trunk Connector Unlock Tool	MBCRTOL	AC Trunk Connector Unlock Tool *1
AC Trunk End Cap	MLECOV	AC Trunk End Cap *1
AC Trunk Port Cap	MLPCOVW	AC Trunk Port Cap *1
Male AC Sub Connector	BC05A-BR3M	Male AC Sub Connector *1

DC Accessories

Type	Model	Description
DC Connector (+)	VP-D4 B-CHSF0	Female DC Connector *4
	YF-H4-CSF	
DC Connector (-)	VP-D4 B-CHSM0	Male DC Connector *4
	YF-H4-CSM	
DC Connector Unlock Tool	YF-H4-TW	DC Connector Unlock Tool *1
PV Extension Cable	PV Extension Cable (1m)	Male DC Connector *1
		DC Cable (Cable length: 1m) *1
		Female DC Connector *1

Ordering Options

Model		Number per Box	Box Dimensions(cm)
2-in-1 Unlock Tool		TBD	53*37.5*26
AC Sub Connector Unlock Tool		TBD	36.5*36.5*35.5
AC Trunk Connector Unlock Tool		TBD	36.5*36.5*35.5
AC Trunk Connector		TBD	49.5*29*25.5
AC Trunk End Cap		TBD	36.5*36.5*35.5
AC Trunk Port Cap		TBD	36.5*36.5*35.5
Male AC Sub Connector		TBD	36.5*36.5*35.5