GINLONG TECHNOLOGIES CO.,LTD.

Solis-EPM-5G

Solis Export Power Manager

Smart & strong

- Simultaneous control of 20 X Solis inverters

Saving & high precision

- Simultaneously monitor the operating data of the 20 X Solis inverter, saving the cost of the monitoring system
- The control accuracy is up to 1%, which improves the system's spontaneous use rate

Friendly & compatible

- Supports simultaneous access of Solis inverters with different powers
- Monitor power generation and load consumption at all times

Models:

Solis-EPM1-5G

Solis-EPM3-5G-PRO

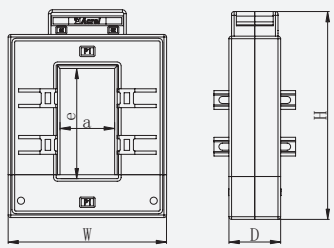
360º View



DATASHEET

Models	Solis-EPM1-5G	Solis-EPM3-5G-PRO
Input AC		
Rated voltage	1/N/PE, 230 V	1/N/PE, 230 V; 3/(N)/PE, 400 V; 3/PE, 480 V
Input voltage range	100 ~ 300 V (L-N)	100 ~ 300 V (L-N); 175 ~ 519 V (L-L)
Input frequency range	45 ~ 65 Hz	
Communication		
Inverter communication	Modbus	
Communication with inverter	RS485 (Wired)	
Max. communication inverter numbers	20	20 (Recommended)
Monitoring	WiFi / 4G / LAN Stick (Optional)	
General Data		
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	5% ~ 95%	
Max. operation altitude	2000 m	
Ingress protection	IP65	
Pollution degree	PD2 (Inside), PD3 (Outside)	
Overvoltage category	III	
Self-consumption	< 6 W	
Dimensions (W × H × D)	364 × 276 × 114 mm	
Weight	2.7 kg (without CT, Meter)	
AC connection	Quick connection terminal	
Display	LCD	
Smart meter	No	Split phase: AGF-AE-D ① Three phase: ADL3000-E-B ②
CT connection	Plug terminal	
CT specification	Single phase: Standard (100 / 5 A or 300 / 5 A)	Split phase: Standard (200 / 40 mA) Three phase: Optional (Secondary current is 5 A)
Power control accuracy	1%Pn	
Features		
Failsafe function	Yes	
Remote upgrade	Yes	

CT specification ②



Specification	Dimensions (mm)			Hole size (mm)		Ratio
	W	H	D	a	e	
CT-30×20-100 A	90	114	40	22	32	100:5 A
CT-60×40-300 A	114	140	36	42	62	300:5 A
CT-80×40-600 A	122	162	40	42	82	600:5 A
CT-80×40-1000 A	122	162	40	42	82	1000:5 A
CT-160×80-2000 A	184	254	52	82	162	2000:5 A
CT-160×80-3000 A	184	254	52	82	162	3000:5 A

① For AGF-AE-D, 2 CTs(200/40mA) will be provided by default.
② For ADL3000-E-B, CTs should be ordered separately.
③ Inverters may need a communication adapter to connect the EPM, please consult a sales representative before placing an order.

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1.1 Product Description

Solis 5G Series Export Power Manager can monitor and control the backflow power from the inverter to the grid thus providing export power control of inverters.
The export power manager is suitable for use with all solar PV grid tie inverters.
Model: Solis-EPM1-5G(for single phase system)
Solis-EPM3-5G-PRO(for three phase system).

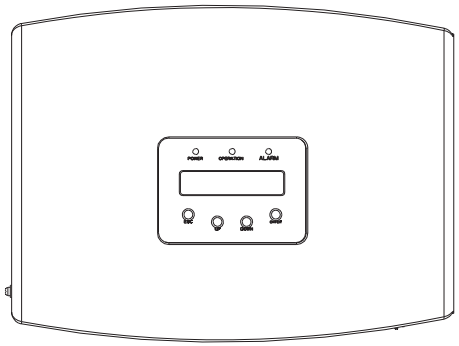


Figure 1.1 Front view

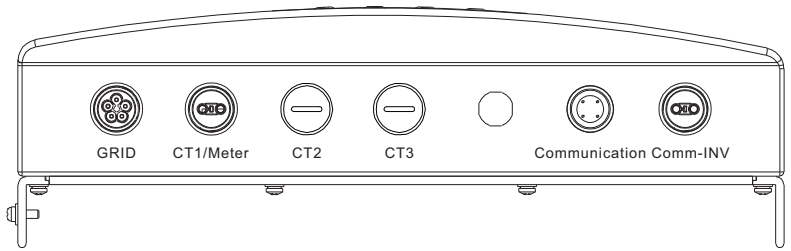


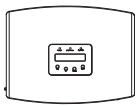
Figure 1.2 Bottom view

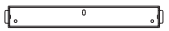
NOTE:
CT1 interface is for EPM1-5G external CT connection.
Meter interface is for EPM3-5G-PRO external meter connection.

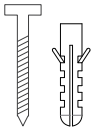
1. Introduction

1.2 Packaging

When you receive the EPM please ensure that all the parts listed below are included:


EPM x1


Back plate x1


Expansion screw set x3

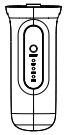

Locking screws x2


3 core AC connector x 1
(For EPM1-5G)
5 core AC connector x 1
(For EPM3-5G-PRO)


COM Connector x1
CT/Meter Connector x1


Meter x1
(only for EPM3-5G-PRO)


RS485 cable x5
(Inverter RS485 terminal x5 pcs)


WiFi datalogger x1
(Optional)

Manual
User manual x1

Quick installation guide
Quick installation guide x1

If anything is missing, please contact your local Solis distributor.

8. Specifications

Model	Solis-EPM1-5G
AC Input	
Rated voltage	1/N/PE, 230V
Input voltage range	100V-300V (L-N)
Voltage fluctuation	±20%
Maximum input current	0.5A
Input frequency range	45-65Hz
Communication	
Inverter communication	Modbus
Communication with inverter	RS485 (Wired)
Maximum communication distance	1000m
Maximum communication inverter numbers	20 pcs
Monitoring	WiFi/4G/LAN Stick (Optional)
General data	
Installation environment	Indoor
Ambient temperature	-25℃~+60℃
Relative humidity	5%~95%
Max. operation altitude	2000m
Ingress protection	IP65
Pollution degree	PD 2(Inside), PD3(Outside)
Overvoltage category	III
Self power consumption	＜6W
Dimensions(W*H*D)	364mm*276mm*114mm
Weight	2.7kg (without CT, Meter)
AC connection	Quick connection terminal
Display	LCD, 2*20Z
Smart meter	No
CT conection	Plug terminal
CT specification	Single phase: Standard(100/5A or 300/5A)
Power control accuracy	1%
Features	
Failsafe fuction	Yes
Remote upgrated	Yes
Control time	5s
Warranty	2 years

8. Specifications

Model	Solis-EPM3-5G-PRO
AC Input	
Rated voltage	1/N/PE, 230V 3/(N)/PE, 230V/400V 3/PE, 480V
Input voltage range	100~300V(L-N) 175~519V(L-L)
Voltage fluctuation	±20%
Maximum input current	0.5A
Input frequency range	45-65Hz
Communication	
Inverter communication	Modbus
Communication with inverter	RS485 (Wired)
Maximum communication distance	1000m
Maximum communication inverter numbers	20 pcs
Monitoring	WiFi/4G/LAN Stick (Optional)
General data	
Installation environment	Indoor
Ambient temperature	-25℃~+60℃
Relative humidity	5%~95%
Max. operation altitude	2000m
Ingress protection	IP65
Pollution degree	PD 2(Inside), PD3(Outside)
Overvoltage category	III
Self power consumption	＜6W
Dimensions(W*H*D)	364mm*276mm*114mm
Weight	2.7kg (without CT, Meter)
AC connection	Quick connection terminal
Display	LCD, 2*20Z
Smart meter	Split phase: AGF-AE-D Three phase: ADL3000-E-B
CT conection	Plug terminal
CT specification	Split phase: Standard (200 / 40 mA) Three phase: Optional (Secondary current is 5A)
Power control accuracy	1%
Features	
Failsafe fuction	Yes
Remote upgrated	Yes
Control time	5s
Warranty	2 years

1.1 Product Description

Solis Export Power Manager can monitor and control the backflow power
from the inverter to the grid thus providing export power control of inverters.
It also has integrated datalogging function as well.
The export power manager is suitable for using with all solar PV grid tie inverters.
Model: Solis-EPM3-5G-PLUS is for three phase systems.

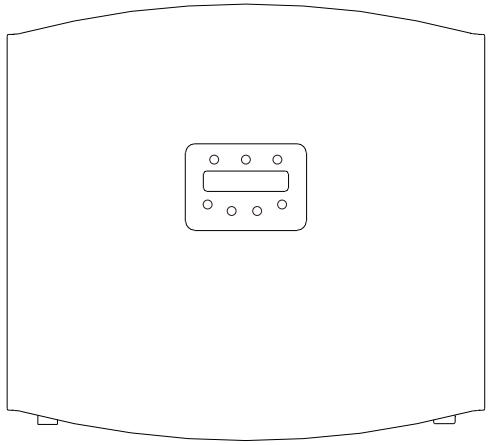


Figure 1.1 Front view

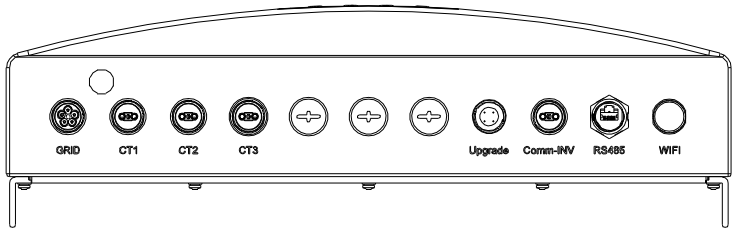
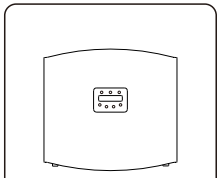


Figure 1.2 Bottom view

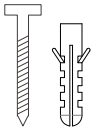
1. Introduction

1.2 Packaging

When you receive the EPM please ensure that all the parts listed below are included:


EPM x1


Back plate x1

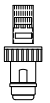

Expansion screw set x4


Locking screws x2


AC connector x1


CT connectors x3
COM connector x1

WiFi antenna x1


RJ45 connector x1


RS485
Communication terminal x5

Manual
User manual x1

Quick installation guide
Quickin stallation guide x1

If anything is missing, please contact your local Solis distributor.

8. Specifications

Model	Solis-EPM3-5G-PLUS
AC Input	
Rated voltage	3/(N)/PE, 230V/400V 3/PE, 480V
Input voltage range	175V~494V (L to L)
Input frequency range	45~65Hz
Communication	
Inverter communication	Modbus
Communication interface	RS485(Wired)
Maximum communication inverter numbers	20pcs
Monitoring	Wi-Fi/LAN (Internal)
General data	
Installation environment	Indoor
Ambient temperature	-25℃~+60℃
Relative Humidity	5%~95%
Max. operation altitude	2000m
Ingress protection	IP65
Pollution degree	PD 2(Inside), PD3(Outside)
Overvoltage category	III
Self power consumption	＜15W
Dimensions(W*H*D)	488mm*446mm*149mm
Weight	5.4kg
AC connection	Quick connection terminal
Display	LCD, 2*20Z
Smart meter	Three phase: DTSD1352-C
CT conection	Plug terminal
CT specification	Three phase: Optional(Secondary current is 5A)
Power control accuracy	1%Pn
Features	
Failsafe function	Yes
Remote upgrated	Yes
Control time	5s
Warranty	2 years

9. Appendix

Connection via Ethernet

1. Connect router and data logger via Ethernet port with network cable.
2. Reset the data logger.

Reset : Press the reset button with a needle or open paper clip and hold for a while when the 4 LEDs should be on. Reset is successful when 3 LEDs, except POWER, turn off.

3. Enter the configuration interface of your router, and check the IP address of the data logger assigned by the router. Open a web browser and enter the assigned IP address to get access to the configuration interface of the data logger.

Fill in username and password, both of which are admin as default.

NOTE:
Supported browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+.

