The PVIA™ Series

Inverter Accessories & Control



P149E



E24 offers a number of Accessories and Control devices that may be installed as options to its inverters for control and communication purposes

E24 inverters and fit with communication ports allowing them to exchange data in both directions.

E24 offers a range of control accessories allowing to instruct the inverters to perform a number of action including the decrease of power generation when needed.

Other accessories allow the connection of the inverters to the cloud via Ethernet, Wifi or $4\mbox{G}.$

Power Control Box



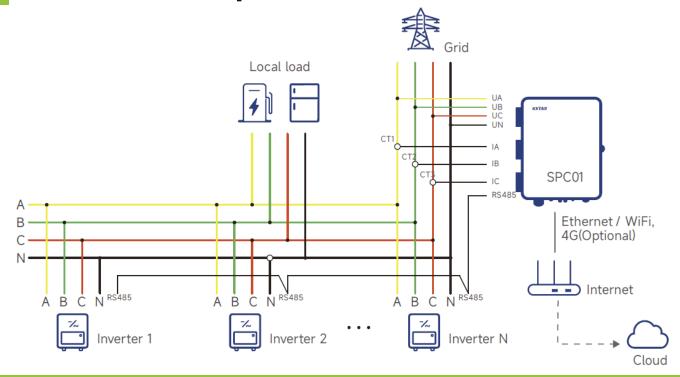
- Maximum number of inverter up to 80
- Maximum distance of inverter communication up to 1000m
- Upload the real-time operating data to local monitoring or cloud server Supports multiple communication modes

The Power Control Box allows to collect data from the current being fed to the grid while it also connects by RS485 to all inverters.

The unit is therefore capable to instruct via RS485, all the inverters to reduce power generation in a manner to reduce to zero the power injected to the grid or to a diesel generator.

Such functionality is required in many cases where the grid does not authorize feed-in or in the case where a diesel generator is operational.

Connection and Specifications



Technical Specifications	ESSM3-PCB			
Input				
Rated Input Voltage	230 VAC (L-N) / 400 VAC (L-L)			
Input Voltage Range	173 - 480 VAC			
Gird Connection Type	3W + N + PE			
Rated Input Frequency	50 / 60 Hz			
Input Frequency Range	45 - 65 Hz			
Lightning Protection Grade	Grade C			
Communication				
Inverter Communication	RS-485*4			
Max. number of Inverter	80			
Max. distance of Inverter Communication	1000 m			
Communication	Ethernet / WiFi / 4G (Optional)			
HMI	Bluetooth + Indicator Light			
Function				
Communication Failure Shutdown	Yes			
Remote Update	Yes			
Zero Export	Yes			
Zero-export Response Time	2s			
Zero-export Control Accuracy	3%			
Mechanical Parameter				
Dimensions(WxDxH)	420 × 132 × 320 mm			
Weight	4 kg			
Operation Temperature Range	-25 - + 60°C			
Cooling Type	Natural Convection			
Max. Operation Altitude	3000 m			
Operation Humidity	0 - 100% (No Condensation)			
IP Class	IP65			
Installation	Wall / Rack Mounted			
3				

Communication Module

The Communication module allows the connection of inverters to the logger or the connection of the logger(s) to a central monitoring station through Ethernet or Wifi or to upload data to the cloud directly via 4G for remote monitoring purposes.



Communication Modules Specifications

MODEL	PVIA-WIFI	PVIA-EWIFI	PVIA-4G	
Wireless Parameters				
Remote Way	WiFi	Ethernet / WiFi	4G	
Number of connect inverters		1		
Data Transmission Interval	Default: 5 mins (1 ~ 15 mins Optional)			
External Interface	N/A	RJ45	Micro SIM card slot	
Hardware Parameters				
Working Voltage		DC 5 V ~ DC 12 V		
Working Power	1.5 W	1.5 W	3.5 W	
		One connected to inverter		
Indicator Light		One connected to router		
		One heartbeat indicator light		
Data Storage	Default: 8 MByte Flash	Default: 4 MByte Flash	Default: 8 MByte Flash	
Working Temperature		-30°C ~ +70°C		
Working Humidity	Relative humidity: 10% ~ 90%, No Condensation			
Storage Temperature	-45°C ~ +90°C			
Storage Humidity	< 40%			
IP Grade		IP65		
Software AT+Instruction set Parameter	S			
Serial Communication Rate	Default: 9600 bps (1200 ~ 115200 bps Optional)			
Configuration	AT+Instruction Set			
	Localweb Configuration			
	Remote Server			
	Bluetooth			
Firmware Upgrade	Local Web Upgrade; Remote Update			
Working Mode		AP+STA		
Others		Real-time Control, Data Resuming		

It is recommended to use Stick logger (WiFi) for residential systems. And Stick Logger (Ethernet / 4G) is optional.



The 4G datalogger just can be used in Europe. Please contact E24 team for specific available countries.

Energy Meters

PVIA-ACM1 is a DIN rail energy meter for three phase measuring. With integrated RS-485 interface, it allows real-time reading of all relevant data, such as energy (total and partial), current, voltage, frequency, active and reactive power.



Energy Meters Specifications

Concrol Notronical Voltage 3 P39W / 3P4W Nominial Voltage 3 = 2001 AOU VAC, 50 / 60 Hz Controll Mexicusment Range Direct Connected: from ON to 80A, CT Connected: from 500 V to 1000 V Power Consumption ≤ 1.5 W Mounting 0 en 3 mm D1N real I Measurement Category 2 Category № Pollution Degree 2 Current (CTC Connected) 0 .5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A Current (CTC Connected) 0 .5% from 8 A to 80 A, ±0.025 A from 0.025 A to 5.4 Current (CTC Connected) 0 .5% from 45 Hz to 65 Hz Current (CTC Connected) 0 .05% from 45 Hz to 65 Hz Current (CTC Connected) 0 .05% from 45 Hz to 65 Hz Ploace I Actor 0 ±0.02 from -10 f Celies Energy 0 ±0.02 from -10 f Ploace I Actor 0 ±0.02 from -10 f Celies Energy 0 ±0.02 from -10 f Power T Eactor 0 ±0.02 from -10 f Schole Energy 0 ±0.02 from -10 f <th>MODEL</th> <th>PVIA-ACM1</th>	MODEL	PVIA-ACM1
Nominal Voltage 3 × 30 / 400 VAC, 50 / 60 Hz Current Messurement Range Direct Connected: from 30 to 80A, CT Connected: 500 A Voltage Messurement Range Direct Connected: from 90 to 500 V, PT Connected: from 500 V to 1000 V Power Consumption \$1.5 W Mounting Calegory 8 Pollution Degree 2 Wessurement Category 0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A Current (Direct Connected) 0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A Current (CT Connected) 0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Frequency 0.022 Hz from 45 Hz to 65 Hz Power 1.002 Hz from 45 Hz to 65 Hz Power Factor 0.022 Hz from 45 Hz to 65 Hz Power Factor 0.025 Hz from 45 Hz to 65 Hz Frequency 0.025 Hz from 45 Hz to 65 Hz Power Factor 0.025 Hz from 45 Hz to 65 Hz Power Factor 0.025 Hz from 45 Hz to 65 Hz Provious properture 2581 0.558 Strongo Temperature 2581 0.558 Strongo Temperature 2,000 to 850 Power Designation Valuego Circuits 3 ×	General	
Current Measurement Range Direct Connected from 90 No 5000, CT Connected -80 A Vollage Measurement Range Direct Connected from 90 No 5000, PT Connected from 500 V to 1000 V Power Consumption ≤ 1,5 W Mounting Consistent Date of Part (Part 1) Measurement Category 2 category B Pollution Degree 2 Current (Direct Connected) 0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A Current (CT Connected) 0.5% from 8 A to 80 A, ±0.028 A from 0.025 A to 0.5 A Current (CT Connected) 0.5% from 8 A to 80 A, ±0.028 A from 0.025 A to 0.5 A United Voltage Class 0.5 Frequency ±0.02 from 1.5 A to 6.6 Hz Power 2 closs 1 Closs 1 4 Closs 1 Active Energy Class 1 Close Energy Class 1 Storage Emperature ±0.02 from -1 to 1 Active Energy 2.58 to 558 Storage Emperature ±0.06 to 858 Humidity 5% to 95% RM (non-condensing) Allitude ±2.200 to 80 Voltage Injut (Ph-N) 2 Current Injut 2 <t< td=""><td>Network System</td><td>3P3W / 3P4W</td></t<>	Network System	3P3W / 3P4W
Voltage Measurement Range Direct Connected: from 90V to 500V, PT Connected: from 500 V to 1000 V Power Consumption ≤ 1.5 W Mounting On 55mm DIN rail Measurement Category 2 Pollution Degree 2 Current (OT Connected) 0.5% from 8 A to 80 A ±0.4 A from 0.4 A to 8 A Current (OT Connected) 0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Line Voltage Class 0.5 Frequency ±0.02 from 45 Hz to 65 Hz Power Factor ±0.02 from 1.01 Active Energy Class 1 Reactive Energy Class 1 Reactive Energy Class 1 Storage Temperature ±58 to 538 Storage Temperature ±58 to 538 Storage Temperature ±600 to 598 RH (non-condensing) Altitude ±200 to 30 Million Voltage Input (Ph-A) ±70 year phase Voltage Input (Ph-A) ±70 year phase Questing Yorking ±70 year phase Measurement Range ±70 year phase Measurement Range ±70 year phase	Nominal Voltage	3 × 230 / 400 VAC, 50 / 60 Hz
Power Consumption ≤ 1.5 W Mounting 0.0 35mm DN rail Measurement Category 2 cleepory 8 Pollution Dagsey 2 Possexurement Accuracy	Current Measurement Range	Direct Connected: from 0A to 80A, CT Connected: >80 A
Mounting On 35mm DIN rail Measurement Category Category 8 Pollution Degree 2 Measurement Accuracy Current (Cirect Connected) 0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A Current (Cirect Connected) 0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Line Voltage Class 0.5 Frequency ±0.02 from 45 Hz to 65 Hz Power ±0.02 from 1b f Active Energy Class 1 Power Factor ±0.02 from 1b f Active Energy Class 1 Reactive Energy Class 2 Environmental Conditions Turns (Circumstance) Storage Temperature ±0.02 from 1b f Humidity 5% to 95% RM (non-condensing) Altitude ±0.00 in Wolfer Voltage input (Ph-N) Voltage input (Ph-N) Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase Measurement Range A 0.3 0 V to 265 V Current Input Current Input Rated Cur		Direct Connected: from 90V to 500V, PT Connected: from 500 V to 1000 V
Measurement Category Category № Pollution Degree 2 Measurement Accuracy Current (Direct Connected) 0.5% from 8 to 80 A, ± 0.4 to 6m 0.4 to 8 A Current (CT Connected) 0.5% from 8 to 80 A, ± 0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Line Voltage ± 0.02 Hz from 45 Hz to 65 Hz Power ± 0.02 Far from 4 to 1 Active Energy ± 0.02 from 1 to 1 Reactive Energy ± 0.85 2 Environmental Conditions ± 0.85 1 Storage Temperature ± 258 to 558 Storage Temperature ± 258 to 558 Multide ± 2000 to 858 Hundity ± 5 to 95% RH (non-condensing) Altitude ± 2000 to 850 Votage Input (Ph-N) ± 0.5 VA per phase Measurement Range ± 0.5 VA per phase Measurement Range ± 0.5 VA per phase Measurement Range ± 0.2 VA per phase Measurement Range ± 0.2 VA per phase Measurement Range ± 0.2 VA per phase Communication Potod RS-485, half-duplex <th< td=""><td>Power Comsumption</td><td>≤ 1.5 W</td></th<>	Power Comsumption	≤ 1.5 W
Poliution Degree 2 Measurement Accuracy Current (Direct Connected) 0.5% from 8.4 to 8.0 A. ±0.4 A from 0.4 A to 8.A Current (CT Connected) 0.5% from 8.5 to 8.0 A. ±0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Errequency ±0.02 Hz from 45 Hz to 65 Hz Power Class 1 Active Energy ±0.02 from -1 to 1 Active Energy Class 1 Reactive Energy Class 5 Reactive Energy Class 5 Power Factor ±0.02 from -1 to 1 Active Energy Class 5 Reactive Energy Class 5 Storage Temperature ±5810 558 Storage Temperature ±5810 558 Storage Temperature ±5810 558 Voltage Insult (Ph-N) 58 to 95% RH (non-condensing) Alltide ±2000 m Voltage Insult (Ph-N) 58 to 95% RH (non-condensing) Alltide ±0.5 VA per phase Measurement Range ±0.5 VA per phase Measurement Range ±0.5 VA per phase Measurement Range ±0.2 VA per phase	Mounting	On 35mm DIN rail
Measurement Accuracy Current (Direct Connected) 0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A Current (CT Connected) 0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Line Voltage Class 0.5 Power ±0.02 Hz from 45 Hz to 65 Hz Power Factor ±0.02 Hz from 45 Hz to 65 Hz Power Factor ±0.02 from -1 to 1 Active Energy Class 1 Reactive Energy Class 2 Environmental Conditions -05 S2 Environmental Conditions -05 S8 Use Talmidity ±0.95 NR H (non-condensing) Hundidity ±0.95 NR H (non-condensing) Altitude ±2.000 m Voltage Input (Ph-N) ±0.5 VA per phase Measurement Range A 5.30 / 10.00 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits A 5.00 V to 25 V Current Input 2.02 VA per phase Measurement Range A C.00 X A to 6 A Communication Protocol Modbus Communication Protocol Modbus Communication Protocol 4.00 bps / 9000 bps (defauli	Measurement Category	Category ⊠
Current (Direct Connected) 0.5% from 8 A to 80 A, ±0.4 A from 0.42 to 8 A Current (CT Connected) 0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Line Voltage ±0.02 tr from 45 Hz to 65 Hz Power Class 1 Power Factor ±0.02 from 1 to 1 Active Energy Class 2 Environmental Conditions ***Class 2 Environmental Conditions ***Class 2 Storage Temperature -258 to 558 Storage Temperature -400 to 858 Hundfuly 5% to 95% RH (non-condensing) Altitude > 2000 m Voltage Input (Ph-N) ***Voltage Input (Ph-N) Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Pollution Degree	2
Current (CT Connected) 0.5% from 0.5 A to 5.A, ±0.025 A from 0.025 A to 0.5 A Phase Voltage Class 0.5 Frequency ±0.02 Hz from 45 Hz to 65 Hz Power Class 1 Power Factor ±0.02 from -1 to 1 Active Energy Class 2 Reactive Energy class 2 Environmental Conditions - 258 to 558 Storage Temperature - 408 to 838 Storage Temperature 5% to 95% RH (non-condensing) Allitude 5% to 95% RH (non-condensing) Allitude 3 × 230 / 400 VAC, 50 / 66 Hz Power Dissipation Voltage Circuits 3 × 230 / 400 VAC, 50 / 66 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Measurement Accuracy	
Phase Voltage Class 0.5 Line Voltage Class 0.5 Frequency ±0.02 Hz from 45 Hz to 65 Hz Power Class 1 Power Rator ±0.02 from -1 to 1 Active Energy Class 1 Reactive Energy Class 2 Environmental Conditions Voltage Input CPM Uperating Temperature -528 to 558 Storage Temperature -408 to 858 Humidity 5% to 95% RH (non-condensing) Altitude ≤ 2000 m Voltage Input (Ph-N) Significant Cyrolistics Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Current (Direct Connected)	0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A
Line Voltage Class 0.5 Frequency ± 0.02 Hz from 45 Hz to 65 Hz Power Class 1 Power Factor ± 0.02 from -1 to 1 Active Energy Class 1 Reactive Energy Class 2 Environmental Conditions Voltage Insperature Operating Temperature -258 to 558 Storage Temperature -408 to 858 Humidity 5% to 95% RH (non-condensing) Altitude ≤ 2000 m Voltage input (Ph-N) 2000 m Voltage input (Ph-N) < 2320 / 400 VAC, 50 / 60 Hz	Current (CT Connected)	0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A
Frequency ±0.02 Hz from 45 Hz to 65 Hz Power Class 1 Power Factor ±0.02 from -1 to 1 Active Energy Class 1 Reactive Energy Class 2 Environmental Conditions - 2581 to 558 Storage Temperature - 408 to 858 Humidity 5% to 95% RH (non-condensing) Altitude ≤ 2000 m Voltage Input (Ph-N) - 2581 to 550 fo Hz Power Dissipation Voltage Circuits < 250 Va per phase	Phase Voltage	Class 0.5
Power Factor ±0.02 from ±1 to 1 Active Energy Class 1 Reactive Energy Class 2 Environmental Conditions -258 to 558 Storage Temperature -258 to 558 Storage Temperature -408 to 858 Humidity 5% to 95% RH (non-condensing) Altitude ≤ 2000 m Voltage Input (Ph-N) Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Line Voltage	Class 0.5
Power Factor ± 0.02 from -1 to 1 Active Energy Class 1 Reactive Energy class 2 Environmental Conditions Class 5 Operating Temperature - 25% to 55% Storage Temperature - 40% to 85% Humidity 5% to 95% RH (non-condensing) Altitude ≤ 2000 m Voltage Input (Ph-N) 5% to 95% RH (non-condensing) Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Frequency	±0.02 Hz from 45 Hz to 65 Hz
Active Energy Class 2 Environmental Conditions -558 to 558 Storage Temperature -408 to 858 Humidity 5% to 95% RH (non-condensing) Altitude < 2000 m	Power	Class 1
Reactive Energy Class 2 Environmental Conditions -258 to 558 Operating Temperature -408 to 858 Storage Temperature -5% to 95% RH (non-condensing) Altitude ≤ 2000 m Voltage Input (Ph-N) - 25 VA per phase Operating Voltage (Cricuits) 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits 3 × 2.30 v to 265 V Current Input - 20 VA per phase Read Current Current Circuits 3 x 1.5(6) A Power Dissipation Current Circuits 3 × 2.00 A to 6 A Measurement Range 4 0.005 A to 6 A Communication Communication Protocol Communication Protocol Modbus Communication Protocol RS-485, half-duplex Baud Rate 4800 bps / 9600 bps (default) / 19200 bps / 115200 bps Stop Bit 1 (default) / 2	Power Factor	±0.02 from -1 to 1
Environmental Conditions Operating Temperature -258 to 558 Storage Temperature -408 to 858 Humidity 5% to 95% RH (non-condensing) Altitude ≤ 2000 m Voltage Input (Ph-N) Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Active Energy	Class 1
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Altilude ≤ 2000 m Voltage Input (Ph-N) Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Storage Temperature	-40⊠ to 85⊠
Voltage Input (Ph-N) Operating Voltage 3 × 230 / 400 VAC, 50 / 60 Hz Power Dissipation Voltage Circuits < 0.5 VA per phase	Humidity	5% to 95% RH (non-condensing)
Operating Voltage3 × 230 / 400 VAC, 50 / 60 HzPower Dissipation Voltage Circuits< 0.5 VA per phase	Altitude	≤ 2000 m
Power Dissipation Voltage Circuits< 0.5 VA per phase	Voltage Input (Ph-N)	
Measurement RangeAC 30 V to 265 VCurrent InputRated Current3 x 1.5(6) APower Dissipation Current Circuits< 0.2 VA per phaseMeasurement RangeAC 0.05 A to 6 ACommunicationCommunication ProtocolModbusCommunication PortRS-485, half-duplexBaud Rate4800 bps / 9600 bps (default) / 19200 bps / 115200 bpsStop Bit1 (default) / 2	Operating Voltage	3 × 230 / 400 VAC, 50 / 60 Hz
Current Input Rated Current 3 x 1.5(6) A Power Dissipation Current Circuits 4 0.2 VA per phase AC 0.05 A to 6 A Communication Communication Protocol Modbus Communication Port RS-485, half-duplex Baud Rate 4800 bps / 9600 bps (default) / 19200 bps / 115200 bps Stop Bit 1 (default) / 2	Power Dissipation Voltage Circuits	< 0.5 VA per phase
Rated Current 3 x 1.5(6) A Power Dissipation Current Circuits < 0.2 VA per phase Measurement Range AC 0.05 A to 6 A Communication Communication Protocol Modbus Communication Port RS-485, half-duplex Baud Rate 4800 bps / 9600 bps (default) / 19200 bps / 115200 bps Stop Bit 1 (default) / 2	Measurement Range	AC 30 V to 265 V
Power Dissipation Current Circuits < 0.2 VA per phase Measurement Range AC 0.05 A to 6 A Communication Communication Protocol Modbus Communication Port RS-485, half-duplex Baud Rate 4800 bps / 9600 bps (default) / 19200 bps / 115200 bps Stop Bit 1 (default) / 2	Current Input	
Measurement Range AC 0.05 A to 6 A Communication Communication Protocol Modbus Communication Port RS-485, half-duplex Baud Rate 4800 bps / 9600 bps (default) / 19200 bps / 115200 bps Stop Bit 1 (default) / 2	Rated Current	3 x 1.5(6) A
CommunicationCommunication ProtocolModbusCommunication PortRS-485, half-duplexBaud Rate4800 bps / 9600 bps (default) / 19200 bps / 115200 bpsStop Bit1 (default) / 2	Power Dissipation Current Circuits	< 0.2 VA per phase
Communication ProtocolModbusCommunication PortRS-485, half-duplexBaud Rate4800 bps / 9600 bps (default) / 19200 bps / 115200 bpsStop Bit1 (default) / 2	Measurement Range	AC 0.05 A to 6 A
Communication Port RS-485, half-duplex Baud Rate 4800 bps / 9600 bps (default) / 19200 bps / 115200 bps Stop Bit 1 (default) / 2	Communication	
Baud Rate	Communication Protocol	Modbus
Stop Bit 1 (default) / 2	Communication Port	RS-485, half-duplex
	Baud Rate	4800 bps / 9600 bps (default) / 19200 bps / 115200 bps
Check Bit None (default) / Odd / Even	Stop Bit	1 (default) / 2
	Check Bit	None (default) / Odd / Even

YDS60-80 smart energy meter is being used along with E24 ESSM3 Series C&I ESS.



^{&#}x27;It has not included Current Transformers. For system larger than 50 kW, CT connection is required. Please select the CT that meets the following requirements:

^{1.} The selected CT's primary rating should be larger than the maximum current passing through the system's AC busbar.

^{2.} Maximum Current = system capacity / 230 / 3

^{**} Please consult E24 for more details.

Hybrid

Storage Inverter

Battery







and much more ...

E24 Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions

E24 products dynamically evolve with the lifestyle and work style of its customers while easing the installation process.

E24 products are conceived in modules allowing for an easy upgrade to adjust with the needs of the customers. Being modular and easy to connect E24 products allow installers to easily configure the required modules for an optimal solution while offering easy upgrade options.

Ordering Information

Ref. Number	Description
PVIA-PCB	Power Control Box
PVIA-ACM1	3 Phase AC Meter without CTs
PVIA-ACM2	3 Phase AC Meter without CTs
PVIA-WIFI	Stick Wifi Logger
PVIA-EWIFI	Stick Ethernet and Wifi Logger

PVIA-4G Stick Wifi Logger











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