

PV Charge Controllers Series

E24™

P130E



PV Charge Controllers for battery sets in 72Vdc, 240Vdc & 480Vdc configurations

For off-grid or Hybrid solar projects, charge controllers are required to charge batteries from the PV generated power.

E24 offer a range of Charge Controllers in 72Vdc, 240Vdc & 480Vdc Battery banks in both PWM and MPPT technology.

72V and 240Vdc PWM Charge Controllers

A cost effective range of Charge Controllers for applications under 3KW. Two controllers operating in Pulse Width Modulation (PWM) technology are available for 72Vdc and 240Vdc battery sets.

The controller can control the electrical charge and discharge process automatically. The controller includes protection circuitry to cut-off the load when the batteries are depleted in

order to avoid damaging the batteries due to over-discharge.

Features:

- Automatic voltage auto-identification
- Rugged and Compact design
- LCD liquid crystal display and simple programming
- Compatible with Flooded, Sealed lead acid or Gel type batteries
- Optional high precision temperature compensation
- LED display indicates the conditions of solar energy and load.
- Overload Protection
- Lightning protection
- Standards: IEC 62509, IEC 62093



PWM Charge Controllers for 72 and 240Vdc applications providing a maximum power of 3KW.

Charge Controller Specifications	PV-CC072-40P	PV-CC240-15P
Controller maximum Input power from PV (KWp)	3.0	3.0
Controller DC max. input Range (Vdc)	0-180	0-400
Controller Tracking Range (Vdc)	75-150	250-380
Controller Max. Charging Current(A)	40	15
Controller Output nominal voltage	72	240
Controller Technology	PWM	PWM

Performance with E24 Solar Panels	280W	320W	280W	320W
Panels in series	2	3	6	4
Maximum number of series	5	3	1	2
Maximum PV voltage	124	138	372	184
PV MPPT Point	104	111	312	148
PV max Power (KWp)	2.8	2.9	1.7	2.6
Maximum Expected DC current	38.9	40	7	10.7

240V MPPT Charge Controllers

The Maximum Power Point Tracking (MPPT) provides 15% - 30% better performance than PWM technology. The 240V MPPT range of PV charge controllers are available in 10, 20, and 40A.

Features:

- MPPT and advanced Microprocessor Controlled DSP technology
- MPPT Improves PV system output efficiency of 20%-30%
- Wide input DC voltage range
- Digital intelligent control, use light signal transmission to control signal inner system transfer with protection from interference and power loss
- Battery charge control adopt three stages: bulk, boost, and float
- Lightning protection
- Top or bottom connections
- High reliability, no need for maintenance, lifetime up to 20 years
- LCD display which shows PV voltage, charge voltage and charge current
- Standards: IEC 62509, IEC 62093



MPPT Charge Controllers for 240Vdc applications available in 10,20 and 40A versions.

Charge Controller Specifications	PV-CC240-10M	PV-CC240-20M	PV-CC240-40M
Controller maximum Input power from PV (KWp)	3.0	7.5	15.0
Controller DC max. input Range (Vdc)	0-500	0-500	0-500
Controller Tracking Range (Vdc)	200-500	200-500	200-500
Controller Max. Charging Current(A)	10	20	40
Controller Output nominal voltage	240	240	240
Controller Technology	MPPT	MPPT	MPPT

Performance with E24 Solar Panels	280W	320W	280W	320W	280W	320W
Panels in series	8	9	8	10	8	10
Maximum number of series	1	1	2	2	4	4
Maximum PV voltage	493	417	493	463	493	463
PV MPPT Point	403	335	403	372	403	372
PV max Power (KWp)	2.2	2.9	4.5	6.4	9.0	12.8
Maximum Expected DC current	9.3	12.0	18.7	26.7	37.3	53.3

480V MPPT Charge Controllers

The 480V MPPT range of charge controllers are available from 30A to 250A. The MPPT Technology allows provides 15% to 30% better performance than PWM technology.

Features:

- MPPT and advanced Microprocessor Controlled and DSP technology
- Improve PV system output efficiency of 20%-30%.
- Wide input DC voltage range
- Digital intelligent control, use light signal transmission to control signal inner system transfer with protection from interference and power loss
- Battery charge control adopt three stages: bulk, boost, and float
- Lightning protection
- Top or bottom connections
- High reliability, no need for maintenance, lifetime up to 20 years
- LCD display which shows PV voltage, charge voltage and charge current
- Standards: IEC 62509, IEC 62093

Charge Controller Specifications	PV-CC480-15M1	PV-CC480-20M1	PV-CC480-30M1
Controller maximum Input power from PV (KWp)	8.4	11.2	16.8
Controller DC max. input Range (Vdc)	0-750	0-750	0-750
Controller MPPT Range (Vdc)	420-750	420-750	420-750
Controller Max. Charging Current (A)	30	50	60
Controller Output nominal voltage	480	480	480
Controller Technology	MPPT	MPPT	MPPT

Performance with E24 Solar Panels	280W	320W	280W	320W	280W	320W
Panels in series	12	NA	12	16	12	16
Maximum number of series	2		3	2	5	3
Maximum PV voltage	739		739	741	739	741
PV MPPT Point	605		605	595	605	595
PV max Power (KWp)	6.7		10.1	10.2	16.8	15.4
Maximum Expected DC current	14.0		21.0	21.3	35.0	32.0

Charge Controller Specifications	PV-CC480-30M	PV-CC480-50M	PV-CC480-60M
Controller maximum Input power from PV (KWp)	14.4	24.0	28.8
Controller DC max. input Range (Vdc)	0-880	0-880	0-880
Controller MPPT Range (Vdc)	550-800	550-800	550-800
Controller Max. Charging Current (A)	30	50	60
Controller Output nominal voltage	480	480	480
Controller Technology	MPPT	MPPT	MPPT

Performance with E24 Solar Panels	280W	320W	280W	320W	280W	320W
Panels in series	12	16	12	16	12	16
Maximum number of series	3	2	7	4	8	5
Maximum PV voltage	739	741	739	741	739	741
PV MPPT Point	605	595	605	595	605	595
PV max Power (KWp)	10.1	10.2	23.5	20.5	26.9	25.6
Maximum Expected DC current	21.0	21.3	49.0	42.7	56.0	53.3

Charge Controller Specifications	PV-CC480-80M	PV-CC480-100M	PV-CC480-150M
Controller maximum Input power from PV (KWp)	38.4	48.0	72.0
Controller DC max. input Range (Vdc)	0-880	0-880	0-880
Controller MPPT Range (Vdc)	550-800	550-800	550-800
Controller Max. Charging Current (A)	80	100	150
Controller Output nominal voltage	480	480	480
Controller Technology	MPPT	MPPT	MPPT

Performance with E24 Solar Panels	280W	320W	280W	320W	280W	320W
Panels in series	12	16	12	16	12	16
Maximum number of series	11	7	14	9	21	14
Maximum PV voltage	739	741	739	741	739	741
PV MPPT Point	605	595	605	595	605	595
PV max Power (KWp)	37.0	35.8	47.0	46.1	70.6	71.7
Maximum Expected DC current	77.0	74.7	98.0	96.0	147.0	149.3

PV Panels



PV Cabling Kits



PV Mounting Kits



PV Charge
Controllers



PV Inverter



PV Controllers



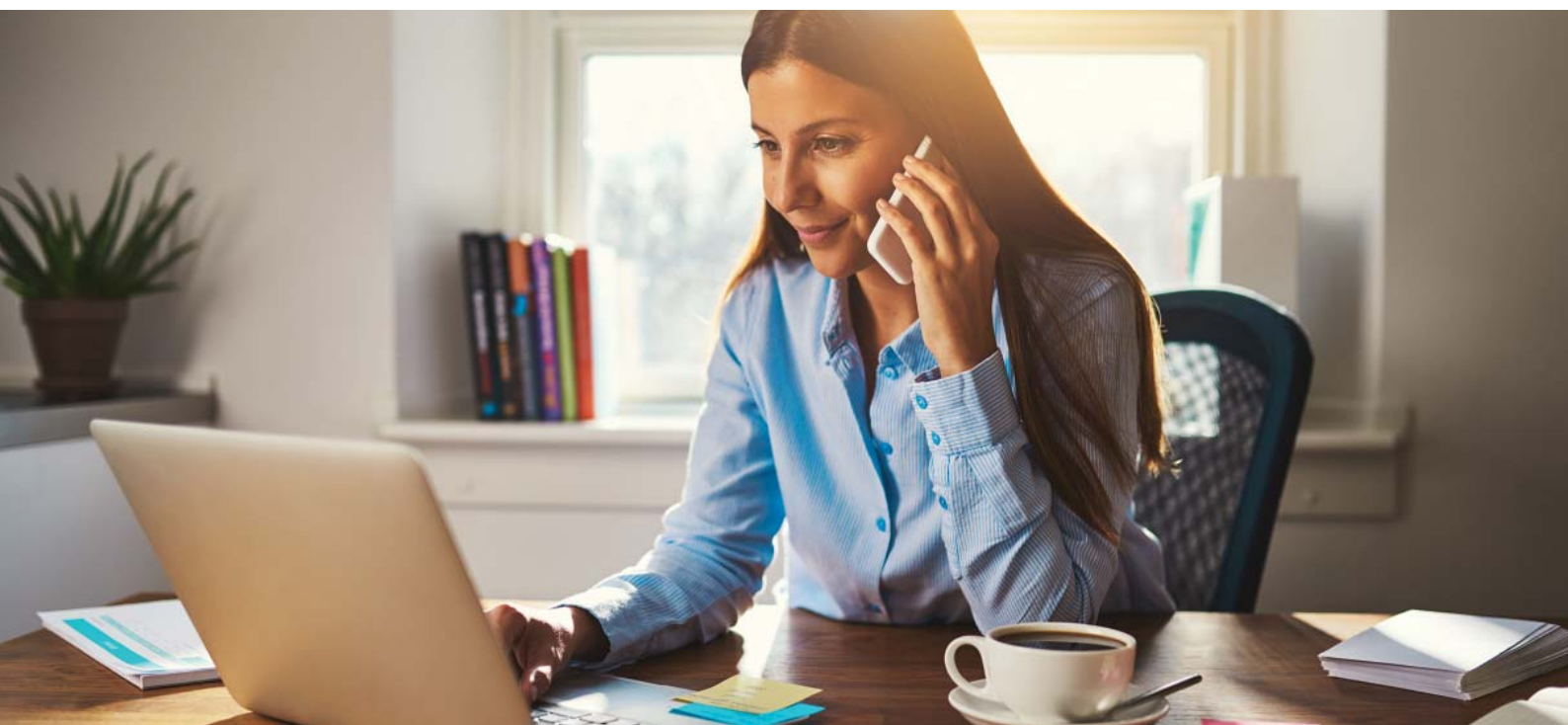
E24 Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions

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
PVCC-072-40P	PWM Charge Controller for 48V, 50A, 3KWp
PVCC-072-40P	PWM Charge Controller for 72V, 40A, 3KWp
PVCC-240-15P	PWM Charge Controller for 240V, 15A, 3KWp
PVCC-240-10M	MPPT Charge Controller for 240V, 10A, 3KWp with RS485 MODBUS RTU
PVCC-240-20M	MPPT Charge Controller for 240V, 20A, 7.5KWp with RS485 MODBUS RTU
PVCC-240-40M	MPPT Charge Controller for 240V, 40A, 15KWp with RS485 MODBUS RTU
PVCC-480-15M1	MPPT Charge Controller for 480V, 15A, 8.4KWp with RS485 MODBUS RTU
PVCC-480-20M1	MPPT Charge Controller for 480V, 20A, 11.2KWp with RS485 MODBUS RTU
PVCC-480-30M1	MPPT Charge Controller for 480V, 30A, 16.8KWp with RS485 MODBUS RTU
PVCC-480-40M1	MPPT Charge Controller for 480V, 40A, 22.4KWp with RS485 MODBUS RTU
PVCC-480-30M	MPPT Charge Controller 480V, 30A, 14.4KWp with RS485 MODBUS RTU
PVCC-480-40M	MPPT Charge Controller 480V, 40A, 19.2KWp with RS485 MODBUS RTU
PVCC-480-50M	MPPT Charge Controller for 480V, 50A, 24KWp with RS485 MODBUS RTU
PVCC-480-60M	MPPT Charge Controller for 480V, 60A, 28.8KWp with RS485 MODBUS RTU
PVCC-480-80M	MPPT Charge Controller for 480V, 80A, 38.4KWp with RS485 MODBUS RTU
PVCC-480-100M	MPPT Charge Controller for 480V, 100A, 48KWp with RS485 MODBUS RTU
PVCC-480-120M	MPPT Charge Controller for 480V, 120A, 57.6KWp with RS485 MODBUS RTU





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