

Charge Controller

phocos

Feature		Model						
			CM	CA	CML	CX	CXN	PL
Main Feature	System Voltage		12V	12V	12/24V	12/24V	12/24V	12/24/32/36 48V
	Rated Solar Current		4A	5, 8A	5, 8, 10, 15, 20A	10, 20, 40A	10, 20, 40A	20, 40, 60A
	Rated Load Current		None	6, 8A	5, 8, 10, 15, 20A	10, 20, 40A	10, 20, 40A	20, 7, 30A
	Charging Regulation		Shunt	Series	Series	Series	Series	Series or Series & Shunt
Overcharge Protection	PWM Battery Charging		✓	✓	✓	✓	✓	PWM or "On-Off"
	Temperature Compensation		✓	✓	✓	✓	✓	Pre-set or user adjust
	Equalization Charging		—	—	✓	✓	✓	Pre-set or user adjust
	Boost Charging		✓	✓	✓	✓	✓	Pre-set or user adjust
	Vented or Sealed Battery		✓	✓	By Jumper	By Menu	By Menu	Pre-set or user adjust
Over Discharge Protection	Control Mode		—	Voltage	Voltage or SOC	Voltage or SOC	Voltage or SOC	Voltage, pre-set or user adjust
	Battery Sulfation Protection (Adaptive Low Voltage Disconnect)		—	—	—	✓	✓	—
Communication Capability	Display (Battery and Load Status)		1LED	3LEDs	5LEDs	Graphic LCD	Graphic LCD	Digital LCD
	Acoustic Warning		—	—	✓	✓	✓	—
	Manual Load Disconnect		—	—	—	✓	✓	—
	Data Logging with Optional Computer Interface		—	—	—	USB	USB	RS232C
Safety Protection	Reverse Polarity Protection		✓ (No load)	✓	✓	✓	✓	✓
	Short Circuit Protection		Electronic fuse	Electronic fuse	Electronic fuse	Electronic fuse	Electronic fuse	Electronic fuse
	Over Temperature Protection		—	—	—	✓	✓	✓
	Over Voltage Protection		✓ (No load)	✓	✓	✓	✓	✓
	Overcurrent Protection		—	Load only	Load only	PV and load	PV and load	PV and load
	Reverse Current Protection		✓	✓	✓	✓	✓	✓
Other Features	Night Light Function		—	—	—	✓	✓	✓
	External Temperature Sensor		—	—	—	✓	✓	✓
	PCB Conformal Coating		✓	✓	✓	✓	✓	✓
	Ambient Temperature Range		-40 to 50°C	-40 to 50°C	-40 to 50°C	-25 to 50°C	-25 to 50°C	-20 to 55°C
	Max. Wire Size		16mm ²	16mm ²	16mm ²	16mm ²	16mm ²	30mm ²
	IP Protection		IP22	IP22	IP22	IP22	IP22	IP22
	Negative Grounding Certificate		—	—	—	—	✓	—
			CE	CE, World Bank	CE, World Bank	CE	CE	CE