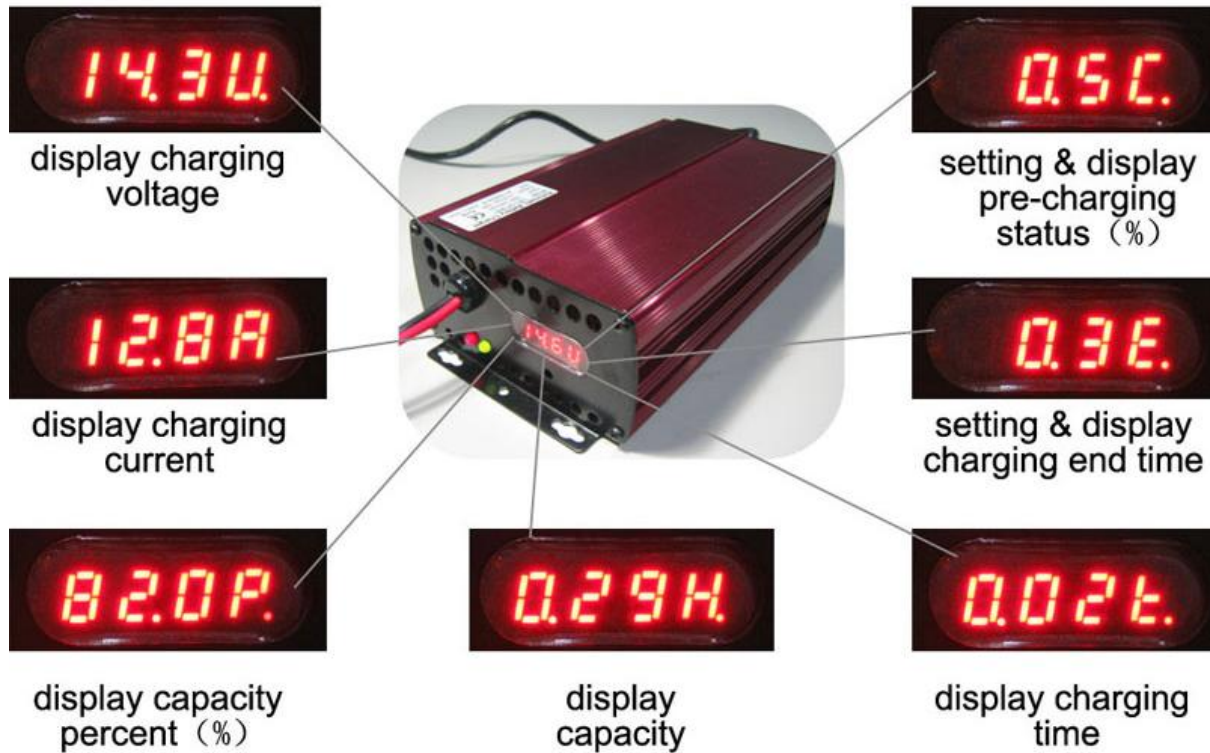


Yesa Battery chargers

Lifepo4 Battery Charger “LifePO4”



Features:

1. 3 Stages Charging: 1st-25% of rating current; 2nd-50% of rating current; 3rd-100% of rating current (equalizer).
2. Automatic Re-charge battery: If the battery voltage $< 3.1V/cell$ after fully charged, the charger will automatic re-charge the battery.
3. Short-circuit Protection: Charger O/P cut-off automatically when short circuited
4. Overload Protection: Charger O/P current-limited automatically when overloaded
5. Reverse Polarity Protection: Charger O/P cut-off automatically when battery has reversed connection.
6. Unique Digital Meter Display: Indicating charge voltage, current, battery capacity (percent and AH) and charger status (timer, pre-charge,.....)
7. 3 LED Display: Red(power), green(fully charged) & orange(equalize charge)

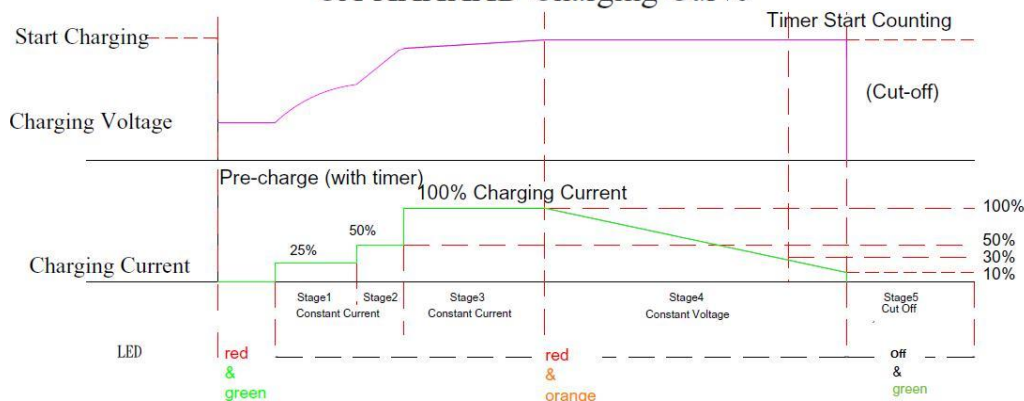


12-24Volt charger Specifications

Model Number	12 volt Nominal	CA04100	CA-12070D	CA-12090	CA-12110	CA-12150
	24 Volt Nominal	CA-0870	CA-08120	CA-08140	CA-08170	CA-08230
Output	Equalize Charge	12A				
	Rating Current	10A	20A	25A	30A	45A
		7A	12A	14A	17A	23A
	Pre-charge1(@<2.5V/cell)	10A	5A	2.2A	2.7A	3.7A
	Timer1 (30minutes) (+/- 0.2A)	7A	3A	1.7A	2.1A	2.7A
	Pre-charge2(@<2.9V/cell)	5A	10A	4.5A	5.5A	7.5A
	Timer2 (6minutes) (+/-0.2A)	3.5A	6A	3.5A	4.3A	5.5A
	< 30% of rating current	3A	6A	2.7A	3.3A	4.4A
	Timer3 (2hours) (+/-0.2A)	2.1A	3.6A	2.1A	2.55A	3.3A
	Cut-Off (10% of rating)	1A	2A	0.9A	1.1A	1.5A
	+/- 2A	.7A	1.2A	0.7A	0.9A	1.1A
	Wattage	200A	300W	400W	500W	670W
Input	Efficiency	>85% (at full Load)				
	Voltage	100-240V				
Protection	Frequency	47-63Hz				
	Battery reverse	Yes Auto shutdown				
	Short Circuit	Yes Auto shutdown				
	Overload	Yes, current limited				
	Cooling Fan	Speed controlled by stage				
Mechanical	Dimensions (mm)	167x103x50	190x118x58	152x70x225	152x70x225	323x231x106
	Weight	0.9k.gs	1.2k.gs	2.1k.gs	2.4kgs	4.2k.gs

Charge Profile

CA-XXXXXD Charging Curve



36-48Volt charger specifications

Model Number	36 volt Nominal	CA-12045	CA-12070D	CA-12090	CA-12110	CA-12150
	48Volt Nominal	CA-16035	CA-16050D	CA-16070	CA-16085	CA-16110
Output	Equalize Charge	43.8V+/-0.3V (58.4V+/-0.4V)				
	Pre-charge1(@<2.5V/cell)	1.1A	1.8A	2.2A	2.7A	3.7A
	Timer1 (30minutes) (+/-0.2A)	0.9A	1.3A	1.7A	2.1A	2.7A
	Pre-charge2(@<2.9V/cell)	2.3A	3.5A	4.5A	5.5A	7.5A
	Timer2 (6minutes) (+/-0.2A)	1.8A	2.5A	3.5A	4.3A	5.5A
	< 30% of rating current	1.35A	2.1A	2.7A	3.3A	4.4A
	Timer3 (2hours) (+/-0.2A)	1.05A	1.5A	2.1A	2.55A	3.3A
	Cut-Off (10% of rating)	0.45A	0.7A	0.9A	1.1A	1.5A
	+/- 2A	0.35A	0.5A	0.7A	0.9A	1.1A
	Wattage	200A	300W	400W	500W	670W
Input	Efficiency	>85% (at full Load)				
	Voltage	100-240V				
Protection	Frequency	47-63Hz				
	Battery reverse	Yes Auto shutdown				
	Short Circuit	Yes Auto shutdown				
	Overload	Yes, current limited				
	Cooling Fan	Speed controlled by stage				
Mechanical	Dimensions (mm)	167x103x50	190x118x58	152x70x225	152x70x225	323x231x106
	Weight	0.9k.gs	1.2k.gs	2.1k.gs	2.4kgs	4.2k.gs

LCD display functions

