

**Products Specification**

**ExpertPower**

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**14.4V 20A LiFePO4 Battery Charger**

SPECIFICATION				
MODEL:	EPC1220			
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COMMON/UNITE			REV: 1.0	PAGE:1 OF 1

**Smart 2-Stages LiFePO4 Battery Charger**

	ITEM	UNIT	SPECIFICATION	REMARK
<b>INPUT</b>				
01	Rating Input Voltage	V ac	100~240Vac 50-60Hz	
02	Input voltage range	V ac	180~264Vac	
03	Rating Input Current	A	2.0Arms	220Vac
04	Max.input power	W	450.0W	
<b>OUTPUT</b>				
05	Rating output voltage	V dc	14.4V	
06	Output voltage range	V dc	0VDC~14.4VDC	
07	Suit with Battery type		12.8V LiFePO4 battery	
08	Charging current(stage1)	A	20.0±2.0	
09	Charging voltage(stage2)	V	14.3-14.4V	
10	Cut-off current(stage1 →2)	A	1.5-2.5A	
11	Typical charging time	hour	Fast charge: 2 hours; Slow charge: 5 hours	
12	Max.output power	W	300.0W	
13	Hold-on time	ms	NC	Input:220Vac Output:Full load
14	Ripple current	mA	500	Input:220Vac Output:Full load
15	Charge finish condition		I<2.5A	
16	LED color		Red:charging Green:finish/idle	
17	Output protect	-	OCP&OVP&Polarity error protection	
18	Efficiency	%	80%(Typical)	At max.load
<b>Environment</b>				
19	Operate temperature	°F	32~104	Full load&natural convection
20	Operate humidity	%RH	20~90	Relative humidity,non-condensing.
21	Storage temperature	°F	-40~178	
22	Storage humidity	%RH	10~95	Relative humidity,non-condensing.
23	Cooling	-	Fan force cooling only when charging	
24	Temperature factor	%	--	
25	Vibration resistance		5MM/50HZ/600S	Non-operating condition.
26	Impact resistance		3.3 feet drop test>=3 times	Non-operating condition.
<b>Mechanical</b>				
27	Weight	lb	2.65	
28	Size	in	6.3 x 4.1 x 2.4	Casing only
29	Connectors	-	Alligator Clips	
<b>Safety</b>				
30	Max.temperature rise	°F	<86 on casing	At any line and Max.Load
31	Safety standards	-	CE(EN60335-2-29)	
32	EMC standard	-	CE(EN55014)	
33	MTBF	hrs	40000	
34	Limited power source	VA	-	
35	ESD	Kv	8.0	
36	Hi-Pot Insulation	v	Input to Output:3000Vac(1 min.)	For final nuit,cut-off current=10mA