

ULTRA MAX[®]

CHAUMXDC12V20A Battery Charger Specification

ULTRAMAX LiPO4 Charger 20A -12V



● Input Data

ITEM	U	SPECIFICATION	REMARK
Rating Input Voltage	V	200~240Vac 50-60Hz	
Input voltage range	V	180~264Vac	
Rating Input Current	A	2.0A	220Vac
Max. input power	W	450.0W	

● Output Data

ITEM	U	SPECIFICATION	REMARK
Rating output voltage	V	14.6V	
Output voltage range	V	0VDC~14.6VDC	
Suit with Battery type		12.8V LiFePO4 battery charger only	
Charging current(stage1)	A	20.0±2.0	
Charging voltage(stage2)	V	14.4-14.8V	
Cut-off current(stage1→2)	A	1.5-2.5A	
Typical charging time	h	Fast charge 2hours Slow charge 5hours	
Max. output power	W	300.0W	
Hold-on time	ms	NC	INPUT:220Vac OUTPUT: Full load
Ripple current	mA	500	INPUT:220Vac OUTPUT: Full load
Charge finish condition	A	I<2.5A	
LED color		Red: charging Green: finish/idle	
Output protect	-	OCP & OVP & Polarity error protection	
Efficiency	%	80%(Typical)	At max. load

● Environment

ITEM	U	SPECIFICATION	REMARK
Operate temperature	°C	0~+40	Full load & natural convection
Operate humidity	%	20~90	Relative humidity, non-condensing
Storage temperature	°C	-40~+70	
Storage humidity	%	10~95	Relative humidity, non-condensing
Cooling	-	fan force cooling only when charging	
Temperature factor	%	--	
Vibration resistance		5MM/50HZ/600S	Non-operating condition.
Impact resistance		1-meter drop test>=3 times	Non-operating condition.

● Mechanical

ITEM	U	SPECIFICATION	REMARK
Weight	g	1200	
Size	mm	160.0x105.0x60.0	Casing only
Connectors	-	Defined when order	

● Safety

ITEM	U	SPECIFICATION	REMARK
Max. temperature rise	°C	<30 on casing	At any line and Max. Load
Safety standards	-	CE(EN60335-2-29)	
EMC standard	-	CE(EN55014)	
MTBF	hr	40000	
Limited power source	VA	-	
ESD	Kv	8.0	
Hi-Pot Insulation	v	Input to Output:3000Vac (1 min.)	For final unit, cut-off current=10mA

● IVoV Charging Graph

