

CHAUMX12V-3A Battery Charger Specification

Ultramax SLA Charger 12V 3A



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	-	Natural convection	
Temperature factor	%	--	
Vibration resistance		5MM/50HZ/600S	Non-operating condition.
Impact resistance		1-meter drop test>=3 times	Non-operating condition.

Input Data

ITEM	U	SPECIFICATION	REMARK
Rating Input Voltage	V	100~240Vac 50-60Hz	
Input voltage range	V	90~264Vac	
Rating Input Current	A	0.6A	220Vac
Max. input power	W	60W	

Mechanical

ITEM	U	SPECIFICATION	REMARK
Weight	g	400g	
Size	mm	120.0x60.0x38.0	Casing only
Connectors	-	Defined when order	

Output Data

ITEM	U	SPECIFICATION	REMARK
Rating output voltage	V	13.8V	
Output voltage range	V	10VDC~15VDC	
Suit with Battery type		12V 6~30Ah VRLA	
Charging current(stage1) (I)	A	3.0±0.3@12V	
Charging voltage(stage2) (V _{max} , V _o)	V	14.5V+0.2V	
Floating voltage(stage3) (V)	V	13.7V±0.15V	
Cut-off (I _{min})	A	<0.6+0.2A	
Typical charging time	h	8	
Max. output power	W	45W	
Hold-on time	ms	NC	INPUT: 220Vac OUTPUT: Full load
Ripple current	mA	200	INPUT: 220Vac OUTPUT: Full load
Charge finish condition		V>14V +I<0.6A	
LED color		Red: charging Green: finish/idle	
Output protect	-	OCP & OVP & Polarity error	
Efficiency	%	75%(min)	At max. load

Safety

ITEM	U	SPECIFICATION	REMARK
Max. temperature rise	°C	<40 on casing	At any line and Max. Load
Safety standards	-	UL1310, EN60335-2-29, SAA	
EMC standard	-	FCC part15, EN55014, C-TICK	
MTBF	hr	40000	
Limited power source	V	-	
ESD	K	8.0	
Hi-Pot Insulation	V	Input to Output:3000Vac (1 min.)	For final cut, cut-off

I_{VoV} Charging Graph

