

**Products Specification**

SPECIFICATION		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
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**3P10-A1015 Smart 3-Stages VRLA 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	90~264Vac	
03	Rating Input Current	A	0.2Arms	INPUT:220V OUTPUT:Full load
04	Max. input power	W	18	
<b>OUTPUT</b>				
05	Rating output voltage	V dc	13.8V	
06	Output voltage range	V dc	10VDC ~ 15VDC	
07	Suit with Battery type		12V 0.8~20Ah VRLA	
08	Charging current ( stage 1)	A	0.75± 0.1@12V	
09	Charging voltage (stage 2)	V	14.75V +-0.25V	
	Floating voltage (stage 3)	V	13.75V+-0.25V	
10	Cut-off current(stage 2→3)	A	<0.20+-0.05A	
11	Typical charging time	hour	8	
12	Max. output power	W	14W	
13	Hold-on time	ms	NC	Input: 220Vac Output: Full load
14	Ripple current	mA	80	Input: 220Vac Output: Full load
15	Charge finish condition		V>14V + I<0.2A	
16	LED color		Red: charging Green: finish/idle	
17	Output protect	-	OCP & OVP	
18	Efficiency	%	>75%	At max. load
<b>Environment</b>				
19	Operate temperature	°C	-10 ~ +40	Full load & natural convection.
20	Operate humidity	%RH	< +90	Relative humidity, non-condensing.
21	Storage temperature	°C	-40 ~ +70	
22	Storage humidity	%RH	0 ~ +95	Relative humidity, non-condensing.
23	Cooling	-	Natural convection	
24	Temperature factor	%	--	
25	Vibration resistance		5MM/50HZ/600S	Non-operating condition.
26	Impact resistance		1 meter drop test >= 3 times	Non-operating condition.
<b>Mechanical</b>				
27	Weight	g	150	
28	Size	mm	75X51X28	Casing only
29	Connectors	-	DC PLUG: Bare Barrel (typical 5.5x2.1x10mm) or others type. AC PLUG: Defined when order	
<b>Safety</b>				
30	Max. temperature rise	°C	< 40 on casing	At any line and Max. Load
31	Safety standards	-	GB4943 EN60950 UL1950	
32	EMC standard	-	NC	
33	MTBF	hrs	30000	
34	Limited power source	VA	-	
35	ESD	kV	8.0	
36	Hi-Pot Insulation	V	i/p to o/p: 3000 (1 min.)	For final unit, cut-off current =10mA