

GUDY ELECTRONICS LTD

Email: info@gudycharger.com

Website: http://www.gudycharger.com

SPECIFICATION

PREPARE

CHECK

APPROVE

MODEL:				
ISSUE DATE:	2016/3/14			
COMMON/UNITE	DOC.NO:		REV: 2.0	PAGE:2 OF2

12V 3A Smart 5-Stages SLA Battery charger with desulfuring function

	ITEM	UNIT	SPECIFICATION	REMARK
INPUT				
01	Rating Input Voltage	V ac	100~240Vac 50-60Hz	
02	Input voltage range	V ac	90~264Vac	
03	Rating Input Current	A	0.4Arms	220Vac
04	Max.input power	W	60W	
OUTPUT				
05	Rating output voltage	V dc	13.8V	
06	Output voltage range	V dc	10VDC~15VDC	
07	Suit with Battery type		12V 7~18Ah VRLA	
08	Charging current(stage1)	A	3±0.3@12V	
09	Charging voltage(stage2)	V	14.5V±0.2V	
10	Floating voltage(stage3)	V	13.7V±0.15V	
11	Desulfurize voltage(stage4)	V	20±0.2V	
12	Dusulfurize current(stage5)	A	<0.2A	
13	Cut-off current(stage2→3)	A	<0.4±0.1A	
14	Typical charging time	hour	8	
15	Max.output power	W	50W	
16	Hold-on time	ms	NC	Input:220Vac Output:Full load
17	Ripple current	mA	100	Input:220Vac Output:Full load
18	Charge finish condition		V>14V +I<0.4A	
19	LED color		Red:charging,Green:finish/idle, Green flash:desulfurize, Red flash:battery polarity error Green led on and red led flash:battery is malfunction	
20	maintenance function		When battery voltage is lower than 12.4V, it will recovery bulk charge. When idle battery voltage is higher than 14.4V, it will start into <0.2A of maintain current. The maintenance mode allows the charger can be connected to the battery forever.	
21	Output protect	-	OCP&OVP&Polarity error protection	
22	Efficiency	%	80%(min)	At max.load
Environment				
23	Operate temperature	℃	-10~+40	Full load&natural convection
24	Operate humidity	%RH	20~90	Relative humidity,non-condensing.
25	Storage temperature	℃	-40~+70	
26	Storage humidity	%RH	10~95	Relative humidity,non-condensing.
27	Cooling	-	Natural convection	
28	Temperature factor	%	--	
29	Vibration resistance		5MM/50HZ/600S	Non-operating condition.
30	Impact resistance		1 meter drop test>=3 times	Non-operating condition.

<i>Mechanical</i>				
31	Weight	g	300g	
32	Size	mm	120.0x60.0x38.0	Casing only
33	Connectors	-	Defined when order	
<i>Safety</i>				
34	Max.temperature rise	°C	<40 on casing	At any line and Max.Load
35	Safety standards	-	CE EN60335-2-29 UL1310 listing	
36	EMC standard	-	CE EN55014	
37	MTBF	hrs	40000	
38	Limited power source	VA	-	
39	ESD	Kv	8.0	
40	Hi-Pot Insulation	v	Input to Output:3000Vac(1 min.)	For final cut,cut-off current<10mA