

GUDY ELECTRONICS LTD.

Tel:86-755-27810525 Fax:86-755-27810505 Email:info@gudycharger.com Http://www.gudycharger.com

SPECIFICATION		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
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COMMON/UNITE	DOC. NO:		REV.: 1.0	PAGE: 1 OF 1

16.8V 1.8A Smart Li-ion Battery Charger

NO	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	INPUT:220V OUTPUT:Full load
04	Max. input power	W	48	
OUTPUT				
05	Rating output voltage	V dc	16.8V	
06	Output voltage range	V dc	12VDC ~ 17VDC	
07	Suit with Battery type	Ah	14.4V LI-ION	
08	Constant Charge current	A	1.9A (+ -0.1A)	
09	Constant Voltage	V	16.6~17.0	
10	Charge end current	A	<0.18	
11	Typical charge time	hour	4 hours	For 4000mAh Li-ion pack
12	Max. output power	W	36W	
13	Hold-on time	ms	20	
14	Ripple current	mA	80	Input: 220Vac Output: Full load
15	Charge finish condition		V>16.5V + I<0.18A	
16	LED color		Red: charging Green: finish/idle	
17	Output short-circuit protect	-	Yes	
18	Efficiency	%	>80%	At max. load
Environment				
19	Operate temperature	°C	-10 ~ +40	Full load & natural convection.
20	Operate humidity	%RH	< +90	Relative humidity, non-condensing.
20	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.
Mechanical				
27	Weight	g	250	
28	Size	mm	117X61X37	Casing only
29	Connectors	-	Defined when order	
Safety				
30	Max. temperature rise	°C	< 40 on casing	At any line and Max. Load
31	Safety standards	-	GB4943 UL1950 EN60950	
32	EMC standard	-	EN55022 B	
33	MTBF	hrs	30000	
34	Limited power source	VA	50	
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