

SHENZHEN ABT ELECTRONICS CO., LTD.

E-mail:sales@abt-power.com Web:www.abt-power.com

SPECIFICATION		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
ISSUE DATE :	3/30/2007 9:27:00 PM			
COMMON/UNITE	DOC. NO:	REV.: 1.1	PAGE: 1 OF 1	

N100-36 SMART NIMH BATTERY CHARGER

NO	ITEM	UNIT	SPECIFICATION	REMARK
INPUT				
01	RATING INPUT	V ac	100~240Vac 50/60Hz	
02	INPUT RANGE	V ac	90~264Vac	
03	RATING INPUT CURRENT	A	0.8Arms	INPUT:220V OUTPUT:Full load
04	MAX. INPUT POWER	W	70	
OUTPUT				
05	RATING OUTPUT VOLTAGE	V dc	48V	
06	OUTPUT VOLTAGE RANGE	V dc	30VDC ~ 50VDC	
07	SUIT WITH BATTERY	Ah	36V 3~14AH NI-MH	
08	CHARGE CURRENT	A	1.8A	
09	TRICKLE CURRENT	A	<0.15	
11	INNER TIMMER	hour	8hour	T.B.D. 1~10 hours
12	MAX. OUTPUT POWER	W	60W	
13	HOLD-ON TIME	ms	NC	Input: 220Vac Output: Full load
14	RIPPLE CURRENT	mA	100	Input: 220Vac Output: Full load
15	MAIN CHARGE END CONDITION		or $dT/dt \geq 0.4 \text{ }^\circ\text{C/min(TYP)}$ or $-dv \geq 5\text{mV/Cell(TYP)}$ or $V_{\text{max}} \geq 1.59\text{V/Cell}$ or $T_{\text{max}} \geq 50+2 \text{ }^\circ\text{C}$ or Time out	
16	LED INDICATION		RED: MAIN CHARGE GREEN: FINISHED	Flashing means error setup
17	Output Short-circuit Protection Output Reverse Protection	-	YES YES	
18	EFFICIENCY	%	80%	At max. load
ENVIRONMENT				
19	OPERATE TEMP.	$^\circ\text{C}$	-10 ~ +40	Full load & natural convection.
20	OPERATE HUMIDITY	%RH	< +90	Relative humidity, non-condensing.
21	STORAGE TEMP.	$^\circ\text{C}$	-40 ~ +70	
22	STORAGE HUMIDITY	%RH	0 ~ +95	Relative humidity, non-condensing.
23	COOLING	-	Natural convection	
24	TEMP. FACT	%	--	
25	VIBRATION		5MM/50HZ/600S	Non-operating condition.
26	IMPACT		1 meter drop test ≥ 3 times	Non-operating condition.
MECHANICAL				
27	WEIGHT	g	550	
28	SIZE	mm	129X91X68	Casing only
29	CONNECTER	-	DC PLUG: 3-PIN TPYE +, -, NTC AC PLUG: Defined when order	NTC type: temperature sensor resister 10K&B=3950
SAFETY				
30	TEMP. RISE	$^\circ\text{C}$	< 40 on casing	At any line and Max. Load
31	SAFETY STANDARD	-	IEC335-2-29	
32	EMC	-	EN55014	
33	MTBF	hrs	30000	
34	ESD	kV	8.0	
35	HI-POT	V	i/p to o/p: 3000 (1 min.)	For final unit, cut-off current =10mA