

**SHENZHEN ABT ELECTRONICS CO., LTD.**

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<b>SPECIFICATION</b>		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
ISSUE DATE :	9/10/2009 9:05:00 AM			
COMMON/UNITE	DOC. NO:	REV.: 1.1	PAGE: 1 OF 1	

**3PN3020MP MULTI-POINT SMART NIMH BATTERY CHARGER**

NO	ITEM	UNIT	SPECIFICATION	REMARK
<b>INPUT</b>				
01	RATING INPUT	V ac	100~240Vac 50/60Hz	
02	INPUT RANGE	V ac	90~264Vac	
03	RATING INPUT CURRENT	A	0.4Arms	INPUT:220V OUTPUT:Full load
04	MAX. INPUT POWER	W	40	
<b>OUTPUT</b>				
05	RATING OUTPUT VOLTAGE	V dc	16V	
06	OUTPUT VOLTAGE RANGE	V dc	7VDC ~ 20VDC	
07	SUIT WITH BATTERY	Ah	7.2 ~12V 1.2~14Ah NIMN/NICD	MCU auto detective.
08	CHARGE CURRENT	A	1.8 ± 0.2 and 0.9+-0.1A	Manual switch select
09	TRICKLE CURRENT	A	<0.25A or 0.13A	
11	INNER TIMMER	hour	8hours (default)	1~10 hours defined when order.
12	MAX. OUTPUT POWER	W	30W	
13	HOLD-ON TIME	ms	NC	Input: 220Vac Output: Full load
14	RIPPLE CURRENT	mA	90	Input: 220Vac Output: Full load
15	MAIN CHARGE END CONDITION		-ΔV > 5mV /cell (TYP) or Vmax>=1.6V/cell or Timer out.	For NiCd, Vmax is 1.8V/cell
16	LED INDICATION		RED: MAIN CHARGE GREEN: FINISHED	
17	Output Short-circuit Protection Output Reverse Protection	-	yes yes	
18	EFFICIENCY	%	80%	At max. load
<b>ENVIRONMENT</b>				
19	OPERATE TEMP.	°C	-10 ~ +40	Full load & natural convection.
20	OPERATE HUMIDITY	%RH	< +90	Relative humidity, non-condensing.
21	STORAGE TEMP.	°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.
<b>MECHANICAL</b>				
27	WEIGHT	g	250	
28	SIZE	mm	117X61X37	Casing only
29	AC&DC CONNECTER	-	Defined when order	
<b>SAFETY</b>				
30	TEMP. RISE	°C	< 40 on casing	At any line and Max. Load
31	SAFETY STANDARD	-	EN60335 UL1310	
32	EMC	-	EN55014 B	
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