

**Portable Power Technology Sdn Bhd.**

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SPECIFICATION		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
ISSUE DATE :	10/4/2008 7:05:00 PM			
COMMON/UNITE	DOC. NO:		REV.: 2.0	PAGE: 1 OF 1

**3P10-N1020 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	0.3Arms	INPUT:220V OUTPUT:Full load
04	MAX. INPUT POWER	W	18	
<b>OUTPUT</b>				
05	RATING OUTPUT VOLTAGE	V dc	16V	
06	OUTPUT VOLTAGE RANGE	V dc	9VDC ~ 20VDC	20V is a void voltage at no-load condition, it used for detecting battery in or out ONLY!
07	SUIT WITH BATTERY	Ah	8.4V~12V 1~5Ah NIMN/NICD	
08	CHARGE CURRENT	A	0.70 A ( +-0.1A)	
09	TRICKLE CURRENT	A	<0.07	
11	INNER TIMMER	hour	8	
12	MAX. OUTPUT POWER	W	13W	
13	HOLD-ON TIME	ms	NC	Input: 120Vac Output: Full load
14	RIPPLE CURRENT	mA	50	Input: 120Vac Output: Full load
15	MAIN CHARGE END CONDITION		-ΔV > 5mV /CELL(TYP) or VMAX>=1.6V/cell or Timer out.	
16	LED INDICATION		RED: MAIN CHARGE GREEN: FINISHED	
17	Output Short-circuit Protection Output Reverse Protection	-	YES YES	
18	EFFICIENCY	%	70%	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	150	
28	SIZE	mm	81X51X28	Casing only
29	Input/Output Cord and Connecters.	-	Defined by user	
<b>SAFETY</b>				
30	TEMP. RISE	°C	< 40 on casing	At any line and Max. Load
31	SAFETY STANDARD	-	EN60950 UL1950	
32	EMC	-	EN55022 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