

Products Specification

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

3PN9560 36~48V NIMH BATTERY CHARGER/Discharger

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	1.1Arms	INPUT:220V OUTPUT:Full load
04	MAX. INPUT POWER	W	140	
OUTPUT				
05	RATING OUTPUT VOLTAGE	V dc	42V or 56V	Depend on battery voltage
06	OUTPUT VOLTAGE RANGE	V dc	0 ~ 64VDC	
07	SUIT WITH BATTERY	Ah	36~48V 4~17AH NI-MH	
08	CHARGE CURRENT	A	2A +- 10%	1.0A ~ 2.0A Required by User
09	TRICKLE CURRENT	A	<0.20	
11	INNER TIMMER	hour	8 hour	Defined by user
12	MAX. OUTPUT POWER	W	120W	
13	Pre-discharge Current	A	0.2A	Select this function when necessary.
14	RIPPLE CURRENT	mA	200	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	Charge LED Indication Power LED Indication		RED: Charging GREEN: Finished RED: Discharge Mode GREEN: Charge Mode	Flashing means error
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	-	Fan cooling	
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	570	
28	SIZE	mm	187X99X61	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	-	T.B.D	
32	EMC	-	T.B.D	
33	MTBF	hrs	10000	
34	ESD	kV	8.0	
35	HI-POT	V	i/p to o/p: 3000 (1 min.)	For final unit, cut-off current =10mA