

80W Charger for hand-held electrical tool



■ Feature:

- Miniaturized Design: Small size and light weight
- Class II
- Protection: Short Circuit/Over Load/Overvoltage
- RoHS、Reach compliance
- LED indicate
- High surge/ESD protection specification、High Reliability

■ Application:

- Charging for the lithium battery of the hand-held electrical tool
- Supporting use according to customer-specific shapes

■ Description:

80W charger for hand-held electrical tool, is designed with a plastic shell, which can effectively prevent users from electrical hazards. Its efficiency meets the latest energy efficiency requirements. It can work safely and effectively at an ambient temperature of 0 °C to 40°C. It has complete Protection function and compliance with the 《Technical safety code for management, operation, inspection maintenance of hand-held motoroperated tools》。

Key Specification

Model			
Output	Voltage	20V	40V
	Rated current	4A	2A
	Current range	3.6~ 4.4A	1.8~ 2.2A
	Rated Power	80W	80W
	Ripple&Noise (max) <small>Remark2</small>	1Vp-p	1Vp-p
	Voltage range	18 ~ 21V	36 ~ 42V
	Mode	CV	CV
Input	Voltage range	90 ~ 264VAC(available at 277VAC, compliance 300VAC at India)	
	Frequency range	47 ~ 63Hz	
	Efficiency(Typ.)	82.96%	
Safety	Safety Standard	IEC/EN60950、60065、62368	
	Safety Type	“●” Indicates that it is currently certified, “◎” Indicates that the applicant meet the certification requirement but not be certified	
	CB	◎	
	CE+LVD	◎	
	BIS	◎	
	UL/CUL	◎	
	GS	◎	
	PSE	◎	
	PSB	◎	
	CCC	◎	
	RCM	◎	
	BSMI	◎	
	IRAM	◎	
	KC	◎	
	SABS	◎	
	SASO	◎	
	EAC	◎	
B-MARK	◎		
SII	◎		
BR	◎		

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Electrical Specification

Model					
Output	Voltage	20V	40V		
	Rated Current	4A	2A		
	Current Range	3.6 ~ 4.4A	1.8 ~ 2.2A		
	Rated Frequency	80W	80W		
	Ripple&Noise (max)Remark2	2Vp-p	2Vp-p		
	Voltage Range	18 ~ 21V	36 ~ 42V		
	Mode	CV	CV		
	Line Regulation	±1.0%			
	Load Regulation	±3.0%			
	Start/Rise time	2000ms, 80ms/230VAC 3000ms, 80ms/115VAC(Full load)			
	Hold-up time(Typ.)	20ms/230VAC 10ms/115VAC(Full load)			
Input	Voltage Range	90 ~ 264VAC(available at 277VAC, compliance 300VAC at India)			
	Frequency Range	47 ~ 63Hz			
	Standby consumption	210mW			
	Efficiency(Typ.)	82%			
	Input Current(Typ.)	2.5A max @100~240Vac			
Surge Current(Typ.)	COLD START80A/100Vac 150A/240Vac				
Protection	Overload	110~145% of rated output power			
		Hic-cup mode while the output voltage is less than 50% of the rated output. Constant current mode while the output voltage is 50%~100% of the rated output. Recovers automatically after fault condition is removed			
	Overvoltage	>21V	>42V		
		Protection Type: Turn off the output, through the PWM control chip built-in VDD voltage clamping			
Environment	Work Temperature	0~ +40℃			
	Work Humidity	20 ~ 95% RH, non-condensing			
	Storage Temperatur&Humidity	-20 ~ +75℃, 20 ~ 95% RH, non-condensing			
	Temperature coefficient	±0.03%/℃ (0~40℃)			
	Vibration resistant	10 ~ 500Hz, 1G 10mins/ circle , X, Y, Z 30mins for each			
	Altitude	5000m			
	Hi-pot	I/P-0/P:3KVAC			
	Isolation Resistane	I/P-0/P:100M Ohms / 500VDC / 25℃ / 70% RH			
EMC	EMI	Parameter	Standard	Test Level / Note	
		Conducted	EN55032(CISPR32), FCC Part 15B	Class B	
		Radiated	EN55032(CISPR32), FCC Part 15B	Class B	
		Harmonic Current	EN61000-3-2	Class A	
		Voltage Flicker	EN61000-3-3	-----	
	EMS	EN55035, EN61000-6-2, EN61204-3			
		Parameter	Standard	Test Level /Note	
		ESD	EN61000-4-2	Level 3, 15KV air; Level 2, 8KV contact, criteria A	
		Radiated Susceptibility	EN61000-4-3	Level 3, criteria A	
		EFT/Burest	EN61000-4-4	Level 3, criteria A	
		Surge	EN61000-4-5	Level 4, 4KV/L-N, criteria A	
		Conducted	EN61000-4-6	Level 3, criteria A	
		Magnetic Field	EN61000-4-8	Level 4, criteria A	
Voltage Dips and interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
Others	MTBF	≥100K hrs. MIL-HDBK-217F (25℃, rated input and output condition)			
	Size(L*W*H)	145*76*32mm			
Remark	<p>1. All specifications and parameters shall be measured at the input of 230VAC, rated load and ambient temperature of 25℃ unless otherwise specified.</p> <p>2. Ripple and noise measurement method: capacitance of 0.1uF and 47uF in parallel at the terminal and the measurement is performed under the 20MHZ bandwidth.</p> <p>3. Accuracy: includes setting error, linear adjustment rate and load adjustment rate.</p> <p>4. The power supply adapter is an independent component, but the final adapter still needs to be confirmed in connection with the electromagnetic compatibility of the terminal equipment.</p>				