

36W 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:

36W 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 -20°C to 50°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	12V	18V
	Rated current	3A	2A
	Current range	2.8 ~ 3.2A	1.8 ~ 2.2A
	Rated Power	36W	36W
	Voltage range	10.8 ~ 12.6V	16.8 ~ 21V
	Mode	CV	CV
Input	Voltage range	90 ~ 264VAC	
	Frequency range	47 ~ 63Hz	
	Efficiency(Typ.)	78.8%	78.8%
Safety	Safety Standard	UL1310; IEC60335	
	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	◎	◎	

36W Charger for hand-held electrical tool

Electrical Specification

Model					
Output	Voltage	12V	18V		
	Rated Current	3A	2A		
	Current Range	2.7 ~ 3.3A	1.8 ~ 2.2A		
	Rated Frequency	36W	36W		
	Ripple&Noise (max)Remark2	500mVp-p	500mVp-p		
	Voltage Range	10.8 ~ 12.6V	16.8 ~ 21V		
	Mode	CV	CV		
	Line Regulation	±1.0%	±1.0%		
	Load Regulation	±3.0%	±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	100mW	100mW		
	Efficiency(Typ.)	78.8%	78.8%		
	Input Current (Typ.)	0.8A max @100~240Vac			
Surge Current (Typ.)	COLD START 30A/100Vac 40A/240Vac				
Protection	Overload	145% max 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	>12.6V	>21V		
Environment	Work Temperature	-20℃~50℃			
	Work Humidity	10%~90%			
	Storage Temperatur&Humidity	-30℃~80℃, 5%~95%			
	Temperature coefficient	±0.03%/℃ (0~ 50℃)			
	Vibration resistant	10 ~ 500Hz, 1G 10mins/ circle , X, Y, Z 30mins for each			
	Altitude	5000m			
	Hi-pot	I/P-O/P:UL AC 1.5KVrms/50Hz 60s 5mA max; CE AC 3.75KVrms/50Hz 60s 5mA max			
	Isolation Resistane	I/P-O/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	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	≥20K hrs. MIL-HDBK-217F (25℃, rated input and output condition)			
	Size(L*W*H)	110*62*27mm			
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>				