

# 300W Charger for gardening electrical tool



(イメージ参考図)

## ■ 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 gardening electrical tool
- Supporting use according to customer-specific shapes

## ■Description:

300W charger for gardening 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.

## Key Specification

Model			
Output	Voltage	58V	
	Rated current	5A	
	Current range	4.5 ~ 5.5A	
	Rated Power	300W	
	Ripple&Noise (max) Remark2	3Vp-p	
	Mode	CV	
	Output accuracy Remark3	±5.0%	
Input	Voltage range	90 ~ 264VAC(available at 277VAC, compliance 300VAC at India)	
	Frequency range	47 ~ 63Hz	
	Efficiency(Typ.)	86.95%	
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	◎		

# 300W Charger for gardening electrical tool

## Electrical Specification

Model				
Output	Voltage	58V		
	Rated Current	5A		
	Current Range	4.5 ~ 5.5A		
	Rated Frequency	300W		
	Ripple&Noise (max)Remark2	3Vp-p		
	Voltage Range	50.4 ~ 58.8V		
	Mode	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	500mW		
	Efficiency(Typ.)	86.95%		
	Input Current(Typ.)	4.5A max @100~240Vac		
Protection	Surge Current(Typ.)	COLD START 140A/100Vac 220A/240Vac		
	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	58.8V			
	Protection Type:	Turn off the output, through the PWM control chip built-in VDD voltage clamping		
Environment	Work Temperature	0~ +40°C		
	Work Humidity	20 ~ 95% RH, non-condensing		
	Storage Temperatur&Humidity	-20 ~ +75°C, 20 ~ 95% RH, non-condensing		
	Temperature coefficient	±0.03%/°C (0~40°C)		
	耐振动	10 ~ 500Hz, 1G 10mins/ circle , X, Y, Z 30mins for each		
	Altitude	5000m		
	Hi-pot	I/P-0/P:3KVAC		
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
	EMS	Voltage Flicker	EN61000-3-3	-----
		EN55035, EN61000-6-2, EN61204-3		
		Parameter	Standard	Test Level /Note
		ESD	EN61000-4-2	Level 3, 15KV air; Level 2,
		Radiated	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
	Voltage Dips and interruptions	Magnetic Field	EN61000-4-8	Level 4, criteria A
		EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
Others	MTBF	≥100K hrs. MIL-HDBK-217F (25°C)		
	Size(L*W*H)	180*160*45mm		
Remark	<p>1. All specifications and parameters shall be measured at the input of 230VAC, rated load and ambient temperature of 25°C 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>			