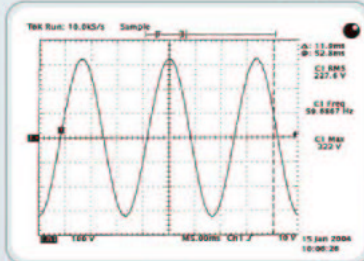


# Smart start function design

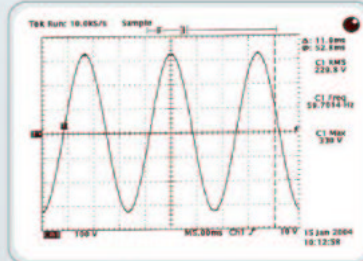
## SPECIFICATION

ORDER NO.	HT-S-150-12	HT-S-300-12	HT-S-600-12	HT-S-1200-12	
OUTPUT	AC VOLTAGE	100/110/120/220/230/240V			
	CONTINUOUS POWER	150W	300W	600W	1200W
	SURGE POWER	300W	600W	1200W	2400W
	WAVEFORM	PURE SINE WAVE			
	FREQUENCY	50/60HZ SELECTABLE			
	AC REGULATION	±5%			
	RECEPTACLES	TYPE-1,2*2PCS		TYPE-3,4,5,6*1PCS	
	LED INDICATOR	Green LED for power on;Red LED for power failure status			
INPUT	DC CURRENT	20A(12V)/10A(24V)	40A(12V)/20A(24V)	30A(12V)/15A(24V)	30A(12V)/15A(24V)
	NO LOAD CURRENT DRAW	0.5A	0.6A	0.6A	0.7A
	DC VOLTAGE	12V/24V/48V			
	VOLTAGE RANGE	10-16VDC(12V)/20-32VDC(24V)/40-64V(48V)			
	EFFICIENCY(Typ.)	>87%			
	DC CONNECTOR	Battery clip*1ea			
	FUSE	1pcs		3pcs	6pcs
	PROTECTION	BAT.LOW ALARM	11±0.5v(12v)/22±1v(24v)		
BAT.LOW SHUTDOWN		10±0.5v(12v)/20±1v(24v)			
OVER VOLTAGE		16±0.5v(12v)/32±1v(24v)			
OVER TEMPERATURE		55±5°C			
SHORT CIRCUIT PROTECTION		Shut-off			
BAT.POLARITY		Burn out			
OVER LOAD		re-start 3 times,shut down if failed			
ENVIRONMENT		WORKING TEMP.	-20~50°C		
	WORKING HUMIDITY	20%~90% RH non-condensing			
	STORAGE TEMP.,HUMIDITY	-30~+70°C/-22~+158°F,10~95% RH			
	TEMP.COEFFICIENT	±0.05%°C(0~55°C)			
SAFETY& EMC	EMI CONDUCTION & RADIATION	Compliance to EN55022 class B, 72/245/CEE, 95/54/CE			
	EMS IMMUNITY	Compliance to EN61000-4-2,3			
	LVD	Compliance to EN60950			
OTHERS	DIMENSION(L*W*H)	250*129*82mm	250*129*82mm	300*179*82mm	380*179*82mm
	NET. WEIGHT	1.9kg	1.9kg	3.1kg	4.2kg
	GROSS WEIGHT(WITH CABLE)	2.8kg	2.8kg	4.0kg	5.0kg

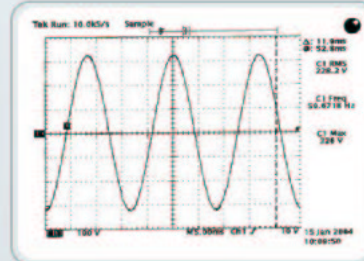
## wave of oscilloscope



No Load



Resistance Load  
150w/300w/600w/1200w



Induction Load  
150w/300w/600w/1200w