Model		HSI-351	HSI-501	HSI-601	HSI-801	HSI-102	HSI-122
Rated Power		350W	500W	600W	800W	1KW	1.2KW
Peak Power		1050W	1500W	1800W	2400W	3KW	3.6KW
Nominal battery voltage		12VDC				12VDC/24VDC	
Input	DC input range	10.5-15VDC (12V) / 21-30VDC (24V)					
	AC Mains input range	(220/230/240VAC) 140-275VAC					
	AC input frequency	50Hz: 45-65Hz / 60Hz: 55-65Hz (50Hz/60Hz automatic recognition)					
Protection	Low battery alarm	≤10.5VDC (12V) / ≤21VDC (24V) alarm					
	Low battery	≤10VDC (12V) / ≤20VDC (24V) automatic shutdown					
	High battery alarm	≥15VDC (12V) / ≥30VDC (24V) alarm					
	High battery	≥17VDC (12V) / ≥34VDC (24V) automatic shutdown					
	Over load protection	110% more than rated capacity, automatic shutdown					
	High temperature	Built-in temperature real time sensor, ≥85℃ alarm, ≥90℃ automatic shutdown					
	Short circuit	Automatic shutdown					
Output	Transfer efficiency	≥87%					
	Output voltage	(DC battery mode) 220/230/240VAC±2%					
	Output frequency	(DC battery mode) 60/50Hz±1%					
	Output wave form	Pure sine wave					
	Output voltage	(AC mains mode) stable 220/230/240VAC±10% output (built-in AVR stablizer)					
	AVR output stablizer	AC mains<140VAC±5% swtich to DC battery mode, AC mains>150VAC ±5% return to AC mains mode;					
		AC mains>275VAC±5% swtich to DC battery mode, AC mains<255VAC ±5% return to AC mains mode;					
		The above is for output 220V system reference, 230V/240V output just multiply by percentage					
	Output frequency	(AC mains mode) automatic tracing from AC input					
Other	Transfer time	Bult- in AC bypass replay (≤8ms)					
	Display	LCD Display with function buttons					
	Cooling system	Intelligent cooling fan control system					
		≤42℃ slow fan, ≥45℃ fast fan					
AC Charger	AC charging Voltage	13.6-14.2VDC(12V)/27.2-28.4VDC(24V)					
	AC charging current	Steady 15A					
	AC over charge	Battery ≥16V (12V) ≥32V (24V) , stop charging after 60s alarm					
Working mode (Optional)	01	AC mains priority Always use AC mains as priority input to provide AC output and automatically charge the battery, only stops charging when battery is fully charged, and only starts DC to AC converting untill AC mains is off					
	02	Energy saving Loading≤10% automatic shutdown, loading≥11%-100% automatic turn on					
	03	DC battery priority Always use DC battery as priority input to provide AC output, for 12V system, when battery≥13V, starts DC to AC converting; when battery≤10.5V during converting, switch to AC mains mode to provide AC output and automatically start charging the battery (for 24Vsystem, multiply by 2 accordingly)					
Communication		RS-232/USB/SNMP(additional option)					
Environment	Temperature	-20~+75℃					
	Humidity	< 95%					
PWM Solar Controller specification	Charging &	20A					30A
	Max. PV input voltage	Max. 30V(12V) / 50V (24V)					
	System voltage	12V / 24V					
	No load current	<5mA					
	Charging circuit drop	≤0.2V					
	Discharging circuit	≤0.15V					
	Over charge	17V (12V) / 34V (24V) stop charging					
	Boost charging	14.6V (12V) / 29.2V (24V) Duration: 30mins					
	Direct charging	14.4V (12V) / 28.8V (24V) Duration: 30mins					
	Float charging	13.6V(12V) / 27.2V (24V) until reach charging recovery voltage					
	Charging recovery	13.8V (12V) / 27.6V (24V)					
	Over discharging	12.5V (12V) / 25V (24V)					
	Low voltage	10.5V (12V) / 21V (24V) alarm					
	Over discharging	10V (12V) / 20V (24V) automatic shutdown					
	Temperature	-4.0mv/℃/2V(Boost charging, Direct charging, float charging and charging recover voltage compensation)					
	Control method	PWM smart charging					
	Working	-20~+75℃					
	Circuit protection	Over charging, over discharging, overload and short circuit protection				All protections are harmless to any parts and fuse of controller; fuse is only for ultimate protection.	
		Anti connection-reverse protection for solar panel					
Appearance	Product size (mm)	280*275*120mm					
	Packing size (mm)	345*315*187mm					
	Net Weight (kg)	7.8kg	8.4kg	8.6kg	9.3kg	9.5kg	9.8kg
	Gross Weight (kg)	8.3kg	9.0kg	9.1kg	9.8kg	10.0kg	10.3kg

*Product specifications are subject to change without further notice

345x315x195
360x328x425