

Model	LSI-	LSI-	LSI-	LSI-	LSI-	LSI-152	LSI-202	LSI-302	LSI-502	LSI-702	LSI-103	LSI-153	LSI-203		
Rated Power	350W	500W	600W	1KW	1.2KW	1.5KW	2KW	3KW	5KW	7KW	10KW	15KW	20KW		
Peak Power	1050	1500	1800	3KW	3.6KW	3.0KW	6KW	9KW	15KW	21KW	30KW	45KW	60KW		
Nominal battery voltage	12VDC			12VDC/24VDC			24VDC/48VDC		48VDC	96VDC		192VDC			
Input	DC input range 10.5-15VDC (12V) / 21-30VDC (24V) / 42-60VDC (48V) / 84-120VDC (96V) / 168-240VDC (192V)														
	AC Mains input range (220/230/240VAC) 140-275VAC										170-250VAC				
	AC input frequency 50Hz: 45-65Hz / 60Hz: 55-65Hz (50Hz/60Hz automatic recognition)														
Protection	Low battery alarm $\leq 10.5VDC$ (12V) / $\leq 21VDC$ (24V) / $\leq 42VDC$ (48V) / $\leq 84VDC$ (96V) / $\leq 168VDC$ (192V) alarm														
	Low battery protection $\leq 10VDC$ (12V) / $\leq 20VDC$ (24V) / $\leq 40VDC$ (48V) / $\leq 80VDC$ (96V) / $\leq 160VDC$ (192V) automatic shutdown														
	High battery alarm $\geq 15VDC$ (12V) / $\geq 30VDC$ (24V) / $\geq 60VDC$ (48V) / $\geq 120VDC$ (96V) / $\geq 240VDC$ (192V) alarm														
	High battery protection $\geq 17VDC$ (12V) / $\geq 34VDC$ (24V) / $\geq 68VDC$ (48V) / $\geq 136VDC$ (96V) / $\geq 272VDC$ (192V) automatic shutdown														
	Over load protection 110% more than rated capacity, automatic shutdown														
	High temperature Built-in temperature real time sensor, $\geq 85^{\circ}C$ alarm, $\geq 90^{\circ}C$ automatic shutdown														
	Short circuit protection Automatic shutdown														
Output	Transfer efficiency $\geq 85\%$														
	Output voltage (DC battery mode) 220/230/240VAC $\pm 2\%$														
	Output frequency (DC battery mode) 60/50Hz $\pm 1\%$														
	Output wave form Pure sine wave														
	Output voltage (AC mains mode) stable 220/230/240VAC $\pm 10\%$ output (built-in AVR stabilizer)														
	AVR output stabilizer AC mains < 140VAC $\pm 5\%$ switch to DC battery mode, AC mains > 150VAC $\pm 5\%$ return to AC mains mode; AC mains > 275VAC $\pm 5\%$ switch to DC battery mode, AC mains < 255VAC $\pm 5\%$ 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 ( $\leq 10ms$ )														
	Display LCD Display with function buttons														
	Cooling system Intelligent cooling fan control system $\leq 42^{\circ}C$ slow fan, $\geq 45^{\circ}C$ fast fan														
AC Charger	AC charging Voltage 13.6-14.2VDC(12V)/27.2-28.4VDC(24V)/54.4-56.8VDC(48V)/108.8-113.6VDC(96V)/217.6-227.2VDC(192V)														
	AC charging current Steady 15A														
	C over charge protection Battery $\geq 16V$ (12V) $\geq 32V$ (24V) $\geq 64V$ (48V) $\geq 128V$ (96V) $\geq 256V$ (192V), 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 until AC mains is off													
	02	Energy saving Loading $\leq 10\%$ automatic shutdown, loading $\geq 11\%$ -100% automatic turn on													
	03	DC battery priority Always use DC battery as priority input to provide AC output, for 12V system, when battery $\geq 13V$ , starts DC to AC converting; when battery $\leq 10.5V$ during converting, switch to AC mains mode to provide AC output and automatically start charging the battery (for 24V/48V/96V/192V system, multiply by 2/4/8/16 accordingly)													
Communication		RS-232/USB/SNMP(additional option)													
Environment	Temperature		-20~+75 $^{\circ}C$												
	Humidity		< 95%												
PWM Solar Controller specification	Charging & discharging	20A			30A				50A			100A			
	Max. PV input voltage	Max. 30V(12V) / 50V (24V) / 100V (48V) / 200V (96V) / 400V (192V)													
	System voltage	12V / 24V / 48V / 96V / 192V													
	No load current	<5mA													
	Charging circuit drop	$\leq 0.2V$													
	Discharging circuit drop	$\leq 0.15V$													
	Over charge protection	17V (12V) / 34V (24V) / 68V (48V) / 136V (96V) / 272V (192V) stop charging													
	Boost charging	14.6V (12V) / 29.2V (24V) / 58.4V (48V) / 116.8V (96V) / 233.6V (192V) Duration: 30mins													
	Direct charging	14.4V (12V) / 28.8V (24V) / 57.6V (48V) / 115.2V (96V) / 230.4V (192V) Duration: 30mins													
	Float charging	13.6V(12V) / 27.2V (24V) / 54.4V (48V) / 108.8V (96V) / 217.6V (192V) until reach charging recovery voltage													
	Charging recovery	13.8V (12V) / 27.6V (24V) / 55.2V (48V) / 110.4V (96V) / 220.8V (192V)													
	Over discharging recover	12.5V (12V) / 25V (24V) / 50V (48V) / 100V (96V) / 200V (192V)													
	Low voltage	10.5V (12V) / 21V (24V) / 42V (48V) / 84V (96V) / 168V (192V) alarm													
	Over discharging	10V (12V) / 20V (24V) / 40V (48V) / 80V (96V) / 160V (192V) automatic shutdown													
	Temperature	-4.0mv/ $^{\circ}C$ /2V(Boost charging, Direct charging, float charging and charging recover voltage compensation)													
	Control method	PWM smart charging													
	Working temperature	-20~75 $^{\circ}C$													
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)		285*255*120mm			310*180*300mm		410*225*410mm		465*270*525mm		540*300*660mm		670*330*720mm	
	Packing size (mm)		345*315*187mm			380*250*350mm		505*320*500mm		620*375*570mm		630*400*740mm		760*430*800mm	
	Net Weight (kg)		7.5kg	7.8kg	8.3kg	9.0kg	9.2kg	6.5kg	26.1kg	29.4kg	46.1kg	50.4kg	54.6kg	64.6kg	74.6kg
	Gross Weight (kg)		8.0kg	8.3kg	8.8kg	9.5kg	9.7kg	7kg	27.8kg	31.1kg	57.1kg	63.1kg	68.8kg	81.3kg	91.3kg

\*Product specifications are subject to change without further notice