



DC Switch Integrated ▶



PV Grid-tied Inverter (Single phase)

SolarRiver 3000TL-US/4000TL-US/**5000TL-US**/6000TL-US

LEADING-EDGE TECHNOLOGY

- Dual MPPT inputs accommodating wide voltage range
- Transformerless topology - minimizing noise and weight
- Communication port (RS485, ethernet, Wi-Fi)
- Max. efficiency 97.8%

FLEXIBILITY

- Suitable for indoor and outdoor (NEMA 3R)
- Flexible MPPT mode for different installations
- User-friendly and easy-setting multi-lingual LCD display screen
- Easy configuration for local grid standards
- Anti-theft protection

BUILT TO LAST

- Comprehensive protection (DC switch integrated, ground fault detection, DC wrong polarity protection, AC short-circuit protection, anti-islanding protection)
- High-quality aluminum die-casting frame
- 10 years product warranty

CERTIFICATES

- UL1741, IEEE 1547, FCC Part 15 (Class A&B), CSA C22.2 No.107.1-2001



SAMIL POWER
Expert for PV Grid-tied Inverters

Datasheet of SolarRiver-US Series

Inverter model	SolarRiver 3000TL-US	SolarRiver 4000TL-US	SolarRiver 5000TL-US	SolarRiver 6000TL-US
Input (DC)				
Max. DC power [W]	3500	4600	5750	6800
Max. DC voltage [V]		550		
DC nominal voltage [V]		400		
Max. input current [A]	17.5	11+11	14.5+14.5	17.5+17.5
Numbers of MPPT/ Strings per MPPT	1/2	2/(2+2)	2/(2+2)	2/(2+2)
MPPT voltage range [V]		200-500		
Min. operating voltage/ Initial operating voltage [V]		100/150		
Output (AC)				
Max. continuous AC power [W]	3000	4000	5000	6000
Max. AC power [W]	3300	4400	5500	6600
Max. AC current [A]	14.5/208V; 12.5/240V	19/208V; 17/240V	24/208V; 21/240V	29/208V; 25/240V; 22/277V
Nominal AC voltage [V]	208; 240 (standard)	208; 240 (standard)	208; 240 (standard)	208; 240 (standard); 277
AC max. voltage range [V]	183-229; 211-264 (standard)	183-229; 211-264 (standard)	183-229; 211-264 (standard)	183-229; 211-264 (standard); 244-305
AC nominal frequency/ Max. frequency range [Hz]		60/59.3-60.5		
Power factor (cos ϕ)		>0.99		
THDi (at nominal power)		<3%		
Efficiency				
Max. efficiency	97.6%	97.7%	97.8%	97.8%
CEC efficiency		97%		
MPPT efficiency		>99.5%		
General Data				
Dimensions (W×H×D) [mm/in]		380×580×203/15×23.8×8		
Weight [kg/lb]	26/57.3	27.5/60.6	29/64	30/66
Operating temperature range [°C/°F]		-25-+60°C/-13-+140°F		
Ingress protection (IP)		NEMA 3R (IP65)		
Topology		transformerless		
Night consumption [W]		<1		
Cooling	Convection	Fan	Fan	Fan
Noise [dB]	<40	<45	<45	<50
LCD display		2 row Character LCD (no operation at night)		
Communication		Ethernet (standard)/RS485 (standard)/Wi-Fi (optional)		
Altitude		2000m/6562ft		
Rel. humidity		0-95%		
DC switch		Integrated		
Warranty (10/15/20 years)		standard/optional/optional		
Certificates		UL1741, IEEE 1547, FCC Part 15 (Class A&B), CSA C22.2 No.107.1-2001		

