



SolarRiver-US

3000 / 3800 / 5000 / 6000 / 7000 / 7600 / 9000 / 10000TL-US

SIMPLE. FLEXIBLE.

- Outstanding two MPPT unbalance function, Suited complicated houseroof, Meeting multi-orientations residence.
- More input current, Permitting more strings in parallel.
- Free site selection due to NEMA 3R.

OPEN. INTERACTIVE.

- Interface selection - Ethernet, WIFI for more flexible configuration and system monitoring.
- Multi-lingual 2-line LCD display
- Easy key pad operation

SECURE. EFFICIENT.

- Highest earnings through peak efficiency of 98.0%
- Safe operation due to integrated DC-Switch
- Free access to Samilpower monitoring portal
- 5 years standard guarantee



● Standard features ○ Optional features - Not available

	SolarRiver 3000TL-US	SolarRiver 3800TL-US	SolarRiver 5000TL-US	SolarRiver 6000TL-US
Input (DC)				
Max. DC power	3300 W	4200 W	5500 W	6600 W
Maximum Usable Power for Each Channel	3300 W	2900 W	3800 W	3800 W
Max. input voltage	550 V			
Full load MPP voltage range / rated input voltage	200 V - 500 V / 400V			
Min. input voltage / initial input voltage	100 V / 150 V			
Max. input current for both MPPT in Parallel	16.5 A	21 A	27.5 A	33 A
Max. usable current per channel (not including Full load MPP voltage range)	16.5 A	14.5 A	19 A	19 A
Max. Input Short Circuit Current per channel	17.4 A	15.5 A	20 A	20 A
Max. Utility Backfeed Current to PV array	0 A			
Number of independent MPP inputs	1	2	2	2
Number of strings	2	4	4	4
Output (AC)				
Rated power (@ 240 V / 60 Hz)	3000 W	3800 W	5000 W	6000 W
Max. apparent AC power	3300 VA	4180 VA	5500 VA	6600 VA
Nominal AC voltage / range	240 V / 211 - 264 V			
AC power frequency / range	60 Hz / 59.3 Hz - 60.5 Hz			
Rated grid voltage / rated power frequency	240 V / 60 Hz			
Max. continuous output current	12.5 A	15.8 A	21 A	25 A
Max. Output Overcurrent Protection	20 A	23.8 A	30 A	35 A
Trip Limit Accuracy	≤±2%			
Trip Time Accuracy	≤16.67ms			
Power factor at rated power	≥0.99			
Feed-in phases / connection phases	2 / 2			
Efficiency				
Max. efficiency / CEC weighted efficiency	97.7% / 97%			
Protective devices				
DC disconnect device / AC disconnect device	● / -			
Ground fault monitoring / grid monitoring	● / ●			
DC reverse polarity protection / AC short-circuit current capability	● / ●			
Galvanic isolation	-			
All-pole-sensitive residual-current monitoring unit	●			
Arc-fault circuit interrupter (according to UL 1699B)	○			
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / II (DC), III (AC)			
General data				
Dimensions (W / H / D)	15x23.8x8 in (380x580x203 mm)			
Weight	57.3lb (26kg)	60.6lb (27.5kg)	64lb (29kg)	66lb (30kg)
Operating temperature range	-25~+60°C (-13~140°F)with derating above45°C(113°F)			
Noise emission	<40	<45	<45	<50
Self-consumption (night)	<3 W			
Topology	Transformerless			
Cooling concept	Convection	Convection	Convection	Fan speed control
Degree of protection (according to IEC 60529)	NEMA 3R (IP65)			
Max. permissible value for relative humidity (non-condensing)	95%			
Features				
DC connection / AC connection	Srew terminal / Srew terminal			
Display	2-line LCD			
Interface: Wi-Fi / Ethernet	● / ●			
Warranty: 5 / 10 / 15 / 20 years	● / ○ / ○ / ○			
Certificates and approvals (additional on request)	UL1741, IEEE1547, FCC Part 15 (Class A & B), CSA C22.2 No. 107.1-2001, UL1699B			



● Standard features ○ Optional features - Not available

	SolarRiver 7000TL-US	SolarRiver 7600TL-US	SolarRiver 9000TL-US	SolarRiver 10000TL-US
Input (DC)				
Max. DC power	7700 W	8360 W	9900 W	11000 W
Maximum Usable Power for Each Channel	5400 W	5400 W	6400 W	6400 W
Max. input voltage	550 V			
Full load MPP voltage range / rated input voltage	200 V - 500 V / 400V		230 V - 500 V / 400 V	
Min. input voltage / initial input voltage	100 V / 150 V			
Max. input current for both MPPT in Parallel	34 A	37 A	44 A	48 A
Max. usable current per channel (not including Full load MPP voltage range)	24 A			
Max. Input Short Circuit Current per channel	25 A			
Max. Utility Backfeed Current to PV array	0 A			
Number of independent MPP inputs	2			
Number of strings	5			
Output (AC)				
Rated power (@ 240 V / 60 Hz)	7000 W	7600 W	9000 W	10000 W
Max. apparent AC power	7700 VA	8360 VA	9900 VA	11000 VA
Nominal AC voltage / range	240 V / 211 - 264 V			
AC power frequency / range	60 Hz / 59.3 Hz - 60.5 Hz			
Rated grid voltage / rated power frequency	240 V / 60 Hz			
Max. continuous output current	29.2 A	32 A	37.5 A	42 A
Max. Output Overcurrent Protection	45 A	50 A	55 A	65 A
Trip Limit Accuracy	≤±2%			
Trip Time Accuracy	≤16.67ms			
Power factor at rated power	≥0.99			
Feed-in phases / connection phases	2 / 2			
Efficiency				
Max. efficiency / CEC weighted efficiency	98% / 97.5%			
Protective devices				
DC disconnect device / AC disconnect device	● / -			
Ground fault monitoring / grid monitoring	● / ●			
DC reverse polarity protection / AC short-circuit current capability	● / ●			
Galvanic isolation	-			
All-pole-sensitive residual-current monitoring unit	●			
Arc-fault circuit interrupter (according to UL 1699B)	○			
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / II (DC), III (AC)			
General data				
Dimensions (W / H / D)	18.5x27.6x9.1 in (470x700x203 mm)			
Weight	93.7lb (42.5kg)		95.9lb (43.5kg)	
Operating temperature range	-25~+60°C (-13~140°F)with derating above45°C(113°F)			
Noise emission	<50		<55	
Self-consumption (night)	<3 W			
Topology	Transformerless			
Cooling concept	Fan speed control			
Degree of protection (according to IEC 60529)	NEMA 3R (IP65)			
Max. permissible value for relative humidity (non-condensing)	95%			
Features				
DC connection / AC connection	Srew terminal / Srew terminal			
Display	2-line LCD			
Interface: Wi-Fi / Ethernet	● / ●			
Warranty: 5 / 10 / 15 / 20 years	● / ○ / ○ / ○			
Certificates and approvals (additional on request)	UL1741, IEEE1547, FCC Part 15 (Class A & B), CSA C22.2 No. 107.1-2001, UL1699B			



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