



## SolarRiver-US 3000 / 3800 / 5000 / 6000 / 7000 / 8000 / 9000 / 10000TLA-US

### **SIMPLE. FLEXIBLE.**

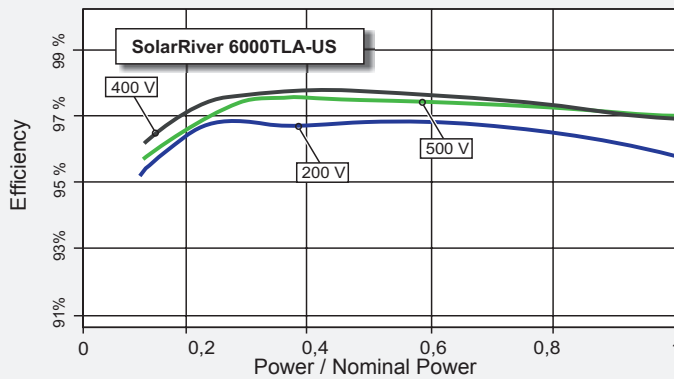
- Simplified system design due to dual MPPT
- Free site selection due to NEMA 3R
- Easy and flexible grid type configuration (208 V / 240 V / 277 V\*)

### **OPEN. INTERACTIVE.**

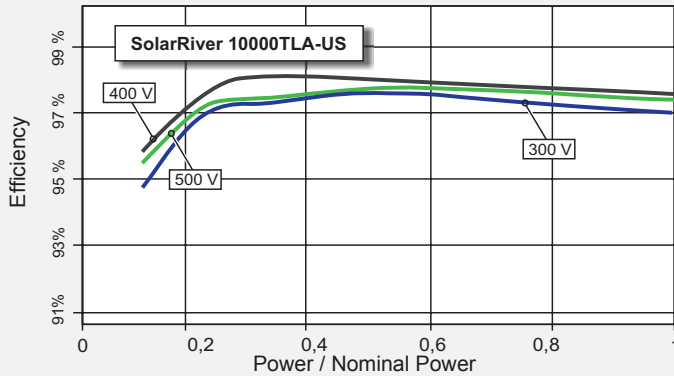
- Interface selection – Ethernet, Wi-Fi and RS485 for more flexible configuration and system monitoring
- Multi-lingual 2-line LCD display
- Easy key pad operation

### **SECURE. EFFICIENT.**

- Highest earnings through peak efficiency of > 97 %
- Safe operation due to integrated DC-switch and AFCI (NEC 2011)
- Free access to the Samil Power monitoring portal
- 10 year standard guarantee



	SolarRiver 3000TLA-US	SolarRiver 3800TLA-US	SolarRiver 5000TLA-US	SolarRiver 6000TLA-US
<b>Input (DC)</b>				
Max. DC power (@cosφ=1)	3500 W	4600 W	5750 W	6800 W
Max. input voltage	550 V			
MPP voltage range / rated input voltage	200 V - 500 V / 400 V			
Min. input voltage / initial input voltage	100 V / 150 V			
Max. input current input A / input B	17.5 A / -	11 A / 11 A	14.5 A / 14.5 A	17.5 A / 17.5 A
Max. input current per string input A / input B	11.5 A / -	11 A / 11 A	11.5 A / 11.5 A	11.5 A / 11.5 A
Number of independent MPP inputs / strings per MPP input	1 / 2		2 / 2	
<b>Output (AC)</b>				
Rated power (@ 240 V / 60 Hz)	3000 W	3800 W	5000 W	6000 W
Max. apparent AC power	3300 VA	3800 VA	5500 VA	6600 VA
Nominal AC voltage / range	240 V / 211 - 264 V (typical) 208 V / 183 V - 229 V			240 V / 211 - 264 V (typical) 208 V / 183 V - 229 V 277 V / 244 V - 305 V
AC frequency / range	60 Hz / 59.3 Hz ... 60.5 Hz			
Rated grid voltage / rated grid frequency	208 V / 60 Hz; 240 V / 60 Hz;			208 V / 60 Hz; 240 V / 60 Hz; 277 V / 60 Hz
Max. output current	14.5 A @ 208 V 12.5 A @ 240 V	19 A @ 208 V 16 A @ 240 V	24 A @ 208 V 21 A @ 240 V	29 A @ 208 V 25 A @ 240 V 22 A @ 277 V
Power factor at rated power	1			
Displacement power factor, adjustable	-			
Feed-in phases / connection phases	2 / 2			
<b>Efficiency</b>				
Max. efficiency / CEC weighted efficiency [%]	97.6 / 96.5 @ 208 V 97.6 / 97.0 @ 240 V	97.7 / 97.0 @ 208 V / 240 V	97.8 / 97.0 @ 208 V / 240V	97.8 / 96.5 @ 208 V 97.8 / 97.0 @ 240 V / 277 V
<b>Protective devices</b>				
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	•			
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / II (DC), III (AC)			
<b>General data</b>				
Dimensions (W / H / D)	380 / 580 / 203 mm (15 / 23.8 / 8 in)			
Weight	26 kg (57.3 lb)	27.5 kg (60.6 lb)	29 kg (64 lb)	30 kg (66 lb)
Operating temperature range	-25 ... +60 °C (-13 ... 140 °F)			
Noise emission (typical)	< 47 dB	< 45 dB		< 50 dB
Self-consumption (night)	< 3 W			
Topology	Transformerless			
Cooling concept	Convection	Fan		
Degree of protection NEMA (ICS 6) / IP (IEC 60529)	NEMA 3R / IP65			
Maximum permissible value for relative humidity (non-condensing)	95 %			
<b>Features</b>				
DC connection / AC connection	Screw terminal / Screw terminal			
Display	2-line LCD			
Interface: RS485 / Wi-Fi / Ethernet	• / • / •			
Multi-function relay / digital input	- / -			
Guarantee: 10 / 15 / 20 / 25 years	• / ○ / ○ / ○			
Certificates and approvals (additional on request)	UL1741, IEEE1547, FCC Part 15 (Class A & B), CSA C22.2 No. 107.1-2001			
• Standard features ○ Optional features — Not available				



	SolarRiver 7000TLA-US	SolarRiver 8000TLA-US	SolarRiver 9000TLA-US	SolarRiver 10000TLA-US
<b>Input (DC)</b>				
Max. DC power (@cosφ=1)	7900 W	9000 W	10100 W	11300 W
Max. input voltage	600 V			
MPP voltage range / rated input voltage	250 V - 500 V / 400 V		300 V - 500 V / 400 V	
Min. input voltage / initial input voltage	150 V / 200 V			
Max. input current input A / input B	18 A / 18 A	19 A / 19 A	19 A / 19 A	20 A / 20 A
Max. input current per string input A / input B	11.5 A / 11.5 A			
Number of independent MPP inputs / strings per MPP input	1 / 2 + 3			
<b>Output (AC)</b>				
Rated power (@ 240 V / 60 Hz)	7000 W	8000 W	9000 W	10000 W
Max. apparent AC power	7700 VA	8800 VA	9900 VA	11000 VA
Nominal AC voltage / range	240 V / 211 - 264 V (typical) 208 V / 183 V - 229 V 277 V / 244 V - 305 V			
AC frequency / range	60 Hz / 59.3 Hz ... 60.5 Hz			
Rated grid voltage / rated grid frequency	208 V / 60 Hz; 240 V / 60 Hz; 277 V / 60 Hz			
Max. output current	34 A @ 208 V 29 A @ 240 V 26 A @ 277 V	39 A @ 208 V 33 A @ 240 V 29 A @ 277 V	43 A @ 208 V 38 A @ 240 V 33 A @ 277 V	48 A @ 208 V 42 A @ 240 V 37 A @ 277 V
Power factor at rated power	1			
Displacement power factor, adjustable	-			
Feed-in phases / connection phases	2 / 2			
<b>Efficiency</b>				
Max. efficiency / CEC weighted efficiency	98 % / 97 % @ 208 V / 277 V 98 % / 97.5 % @ 240 V		98 % / 97 % @ 208 V 98 % / 97.5 % @ 240 V / 277 V	
<b>Protective devices</b>				
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	•			
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / II (DC), III (AC)			
<b>General data</b>				
Dimensions (W / H / D)	470 / 700 / 203 mm (18.5 / 27.6 / 9.1 in)			
Weight	42.5 kg (93.7 lb)		43.5 kg (95.9 lb)	
Operating temperature range	-25 ... +60 °C (-13 ... 140 °F)			
Noise emission (typical)	< 50 dB		< 55 dB	
Self-consumption (night)	< 3 W			
Topology	Transformerless			
Cooling concept	Fan			
Degree of protection NEMA (ICS 6) / IP (IEC 60529)	NEMA 3R / IP65			
Maximum permissible value for relative humidity (non-condensing)	95 %			
<b>Features</b>				
DC connection / AC connection	Screw terminal / Screw terminal			
Display	2-line LCD			
Interface: RS485 / Wi-Fi / Ethernet	• / • / •			
Multi-function relay / digital input	-- / --			
Guarantee: 10 / 15 / 20 / 25 years	• / ○ / ○ / ○			
Certificates and approvals (additional on request)	UL1741, IEEE1547, FCC Part 15 (Class A & B), CSA C22.2 No. 107.1-2001			

• Standard features ○ Optional features — Not available

Technical changes reserved



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