

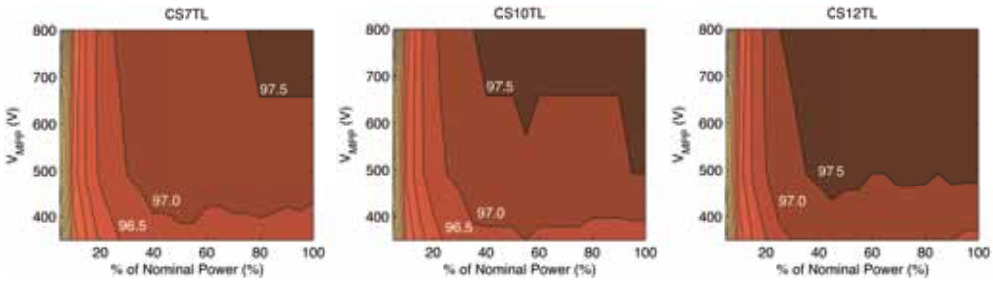
Specifications **SunMaster CS**





	SunMaster CS7TL RP	SunMaster CS10TL RP	SunMaster CS12TL RP
Product code	131210070	131210100	131210120
GENERAL			
Operating temperature	-20 °C to 60 °C (full power up to 45 °C ambient)		
Enclosure	coated aluminium		
Protection degree	IP65 electronics for outdoor application		
Relative humidity	4-100% condensing		
Safety class	class I		
Inverter topology	transformerless		
Weight	40 kg	40 kg	42 kg
Dimensions, hxwxd	630x650x260 mm	630x650x260 mm	630x650x260 mm
SOLAR INPUT (DC)			
Recommended PV power range	6.8-9.3 kWp	9-12.5 kWp	12-15.5 kWp
Max. power	8.2 kW DC	11 kW DC	13.8 kW DC
Start-up power	20 W		
Operating voltage	180-950 V	180-950 V	180-950 V
MPP voltage range @ nom. power	365-800 V	300-800 V	380-800 V
Nominal voltage	650 V		
Absolute max. voltage	1000 V		
Number of inputs	2 sets MultiContact MC4 connectors		
Number of MPP trackers	2 MPP trackers		
Efficiency MPP trackers (static/dynamic)	> 99.9% / 99.8%		
Nominal current	2x 9 A	2x 17 A	2x 17 A
FlexPower	1:1	2:1	2:1
Max. power per tracker	4.1 kW DC	6.8 kW DC	8.6 kW DC
GRID OUTPUT (AC)			
Voltage	400/230 V (3/N/PE) ± 20%		
Nominal power	7.5 kVA	10 kVA	12.5 kA
Max. power	7.88 kVA	10 kVA	13.12 kVA
Max. current	3x 12 A	3x 16 A	3x 20 A
Frequency	50/60 Hz		
Nominal power factor	> 0.99 at full power		
Reactive power control	0.80 inductive .. 0.80 capacitive		
DC current injection	< 0.25% In		
RCD (integrated)	30/300 mA DC sensitive		
Low Voltage Ride through (LVRT)	integrated		
Standby power consumption	< 2 W		
EU efficiency	96.9%	97%	97%
Max. efficiency	97.4%	97.5%	97.5%
AC connector (IP67 3-phase)	suitable for 4-10 mm² cables		
REGULATIONS & DIRECTIVES			
CE conformity	yes		
National grid requirements	VDE0126-1-1; VDE AR-N-4105; BDEW; RD1663; G59/2; Synergrid C10/11; CEI-021		
COMMUNICATION & MONITORING			
Display	multi-language graphical LCD display		
Diagnostics	datalogger with 10 year memory		
Communication	2x RS485 connections / MasterBus field service interface / MasterBus string box interface		

* In Italy max. 20 kVA.



The SunMaster CS models have an exceptionally stable efficiency over the whole input range.



SunMaster CS15TL RP
131210150



SunMaster CS20TL RP
131210200



SunMaster CS30TL RP
131210300

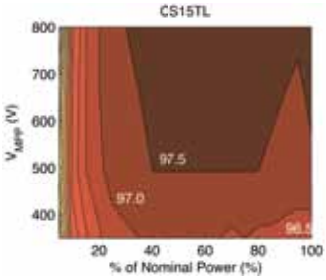
-20 °C to 60 °C (full power up to 45 °C ambient)		
coated aluminium		
IP65 electronics for outdoor application		
4-100% condensing		
class I		
transformerless		
65 kg	65 kg	65 kg
970x650x260 mm	970x650x260 mm	970x650x260 mm

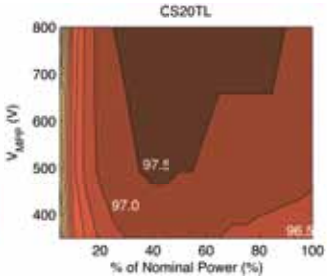
13-19 kWp	18-25 kWp	26-37.5 kWp
17 kW DC	22 kW DC	33 kW DC
	20 W	
200-950 V	200-950 V	200-950 V
350-800 V	350-800 V	440-800 V
	650 V	
	1000 V	
2 sets MultiContact MC4 connectors		
2 MPP trackers		
> 99.9% / 99.8%		
2x 23 A (can be paralleled)	2x 30 A (can be paralleled)	2x 34 A (can be paralleled)
1:1	1:1	1:1
8.5 kW DC	11 kW DC	16.5 kW DC

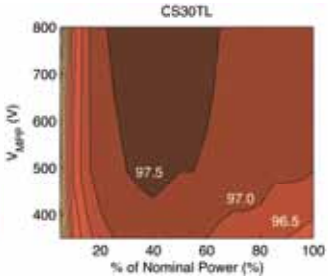
400/230 V (3/N/PE) ± 20%		
15 kVA	20 kVA	30 kVA
15.75 kVA	21 kVA *	30 kVA
3x 24 A	3x 32 A	3x 48 A
50/60 Hz		
> 0.99 at full power		
0.85 inductive .. 0.85 capacitive		
< 0.25% In		
30/300 mA DC sensitive		
integrated		
< 2 W		
97.1%	97.2%	97.2%
97.6%	97.7%	97.7%
suitable for 4-10 mm² cables		suitable for 6-16 mm² cables

yes
VDE0126-1-1; VDE AR-N-4105; BDEW; RD1663; G59/2; Synergrid C10/11; CEI-021

multi-language graphical LCD display
datalogger with 10 year memory
2x RS485 connections / MasterBus field service interface / MasterBus string box interface







For specifications, scale drawings, certificates and manuals see
www.mastervoltsolar.com/sunmaster-cs

