

	Solartec D 10000	Solartec D 12000	Solartec D 15000	Solartec D 20000
DC Input				
Max. DC Power	10,350 W	12,450 W	15,550 W	20,600W
Max. DC Voltage	1,000 V	1,000 V	1,000 V	1000V
Max. Input Current	2 × 20 A	2 × 20 A	2 × 20 A	2 × 25 A
PV Voltage Range MPPT	250 – 800 V	330 – 800 V	380 – 800 V	450 – 800 V
Number of MPP Trackers	2	2	2	2
Strings of each MPPT	A: 3, B: 3	A: 3, B: 3	A: 3, B: 3	A: 3, B: 3
Nominal DC Voltage	650 V	650 V	650 V	650 V
System Start-Up Voltage	250 V	250 V	250 V	250 V
AC Output				
Nominal AC Output	10,000 W	12,000 W	15,000 W	20,000 W
Nominal AC Voltage	230 / 400 V (3/N/PE)	230 / 400 V (3/N/PE)	230 / 400 V (3/N/PE)	230 / 400 V (3/N/PE)
Nominal Grid Frequency Range	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
THD of AC Current	< 3.0 %	< 3.0 %	< 3.0 %	< 3.0 %
Power Factor (reactive power, cos φ)	0.9 ahead to 0.9 lagging is adjustable	0.9 ahead to 0.9 lagging is adjustable	0.9 ahead to 0.9 lagging is adjustable	0.9 ahead to 0.9 lagging is adjustable
Max. Output Current	15 A	18 A	22 A	29 A
Efficiency				
Max. Efficiency	98.00%	98.00%	98.00%	98.20%
European Efficiency	97.30%	97.30%	97.40%	97.50%
Mechanical Parameters				
Dimensions (W / H / D) in mm	550 / 650 / 250	550 / 650 / 250	550 / 650 / 250	550 / 650 / 250
Weight	45 kg	45 kg	50 kg	55 kg
General Data				
Ambient Temperature	-25 to +60°C	-25 to +60°C	-25 to +60°C	-25 to +60°C
	(-13 to +140°F)	(-13 to +140°F)	(-13 to +140°F)	(-13 to +140°F)
Ambient Humidity	4 to 100 %	4 to 100 %	4 to 100 %	4 to 100 %
	(no condensation)	(no condensation)	(no condensation)	(no condensation)
Working Altitude	Below 2000m,when higher than 2000m,service in derated capacity	Below 2000m,when higher than 2000m,service in derated capacity	Below 2000m,when higher than 2000m,service in derated capacity	Below 2000m,when higher than 2000m,service in derated capacity
Power Consumption at Night	< 1 W	< 1 W	< 1 W	< 1 W
Topological Structure	Transformerless	Transformerless	Transformerless	Transformerless
Type of Cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling
Degree of IP Protection	IP65	IP65	IP65	IP65
Noise Development	< 50 dB	< 50 dB	< 50 dB	< 50 dB
DC Switch	Integrated	Integrated	Integrated	Integrated
Display and Communication				
Display	LCD	LCD	LCD	LCD
Standard Communication Interface	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232
Standard Warranty	5 years	5 years	5 years	5 years
Certificates	CE / TUV / VDE 4105 / AS / CEI / G59 / CGC	CE / TUV / VDE 4105 / AS / CEI / G59 / CGC	CE / TUV / VDE 4105 / AS / CEI / G59 / CGC	CE / TUV / VDE 4105 / AS / CEI / G59 / CGC