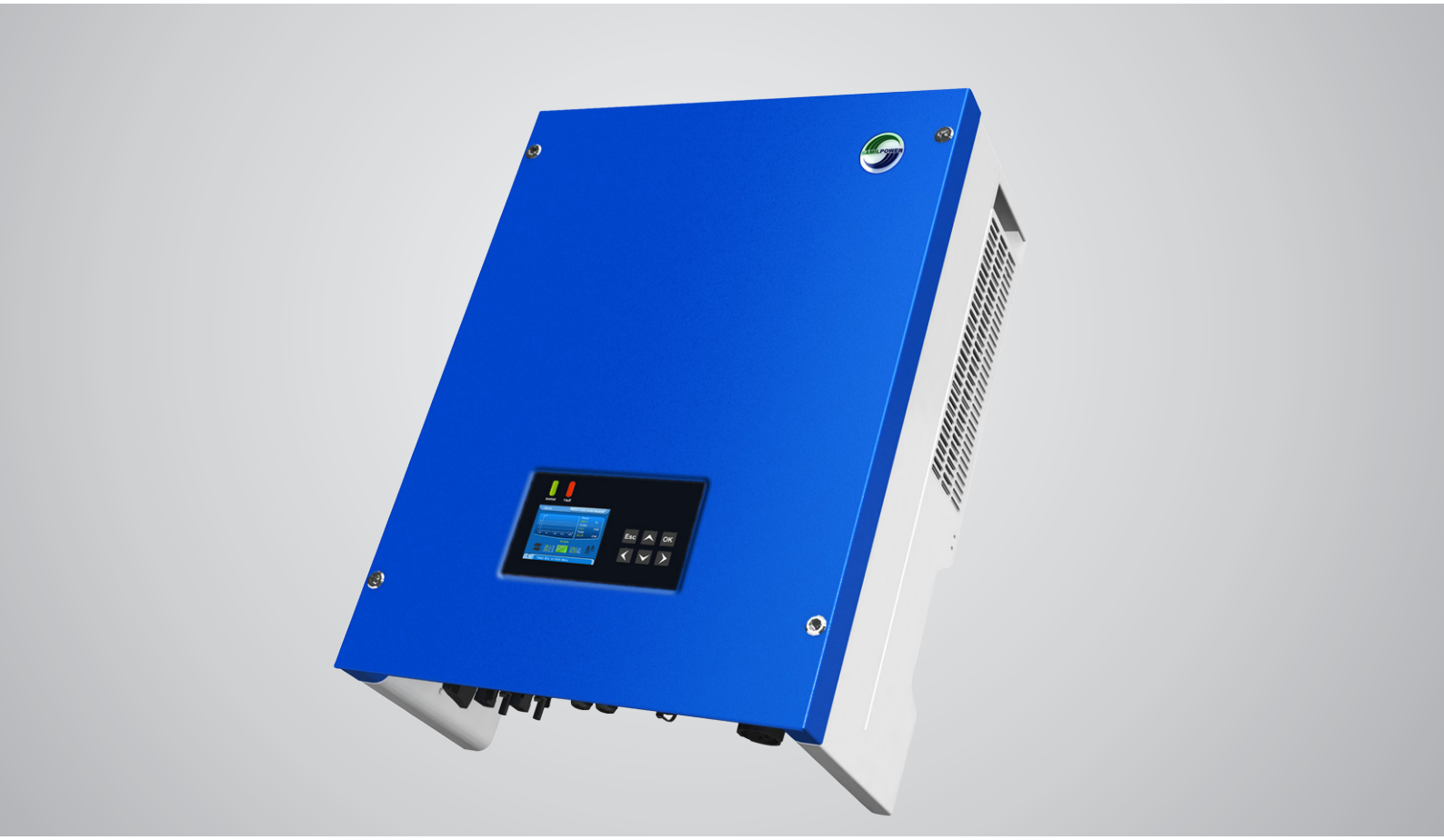
SAMIL POWER
Expert for PV Grid-tied Inverters



SolarLake
5500 / 7000 / 8500 / 10000TL-PM

SIMPLE. FLEXIBLE.

- Simplified system design due to dual MPPT and wide input voltage range up to 1,000 V
- Free site selection due to IP65
- Parameter and country code setting during initial start up

OPEN. INTERACTIVE.

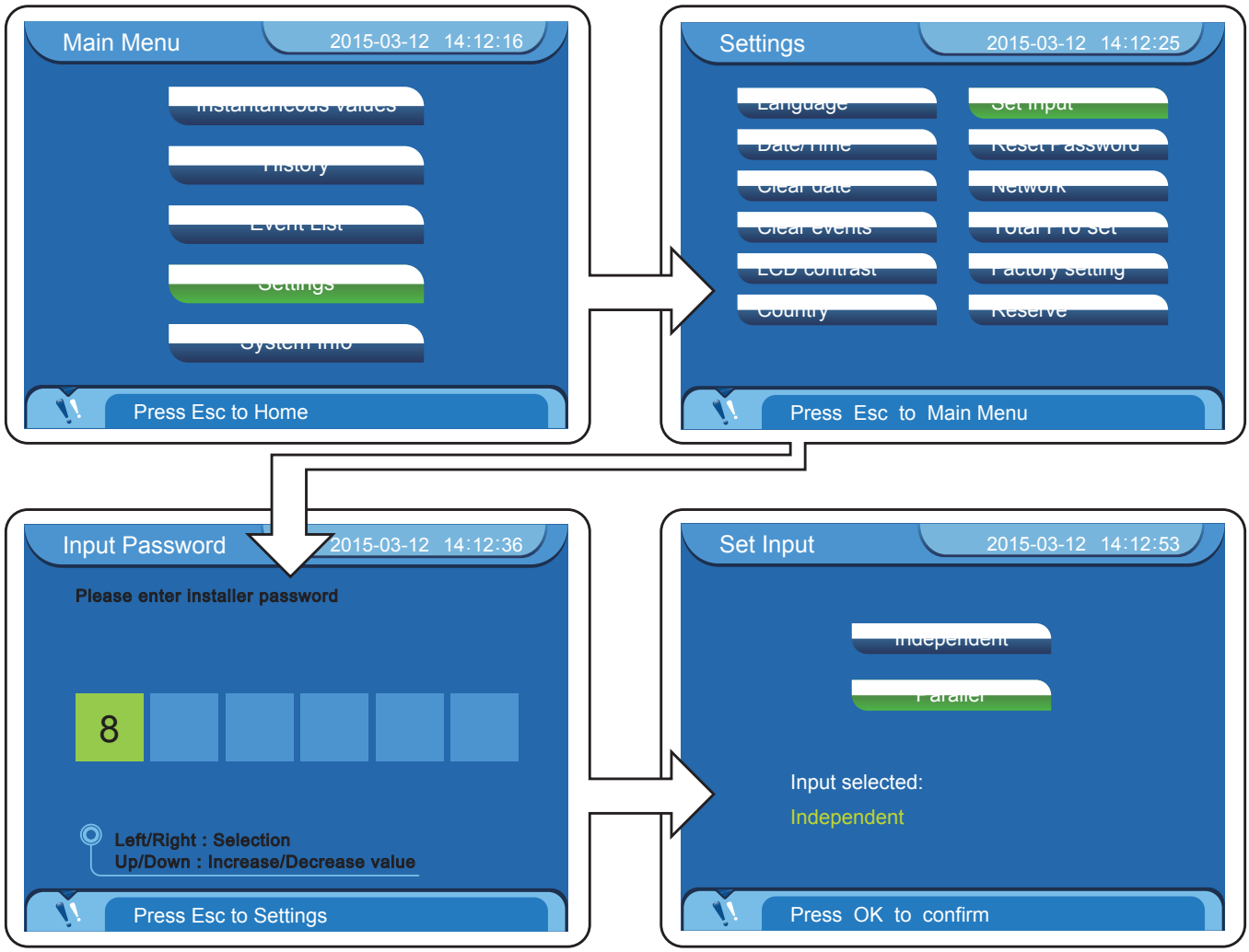
- Interface selection – Ethernet, Wi-Fi and RS485 for more flexible configuration and system monitoring
- Multi-lingual 3.5“ TFT LCD display
- Easy key pad operation
- Digital inputs for the economic connection of a ripple control receiver
- Configurable multi-function relay output
- Integrated data logger incl. SD card slot

SECURE. EFFICIENT.

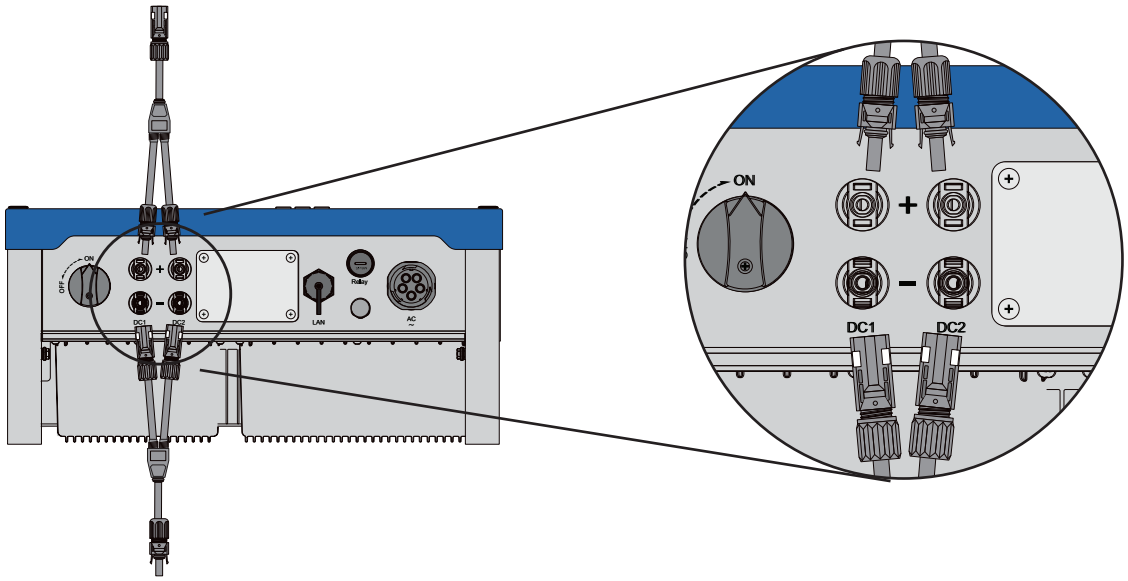
- Highest earnings through max. efficiency of > 98 %
- Safe operation due to integrated DC-switch
- Free access to the Samil Power monitoring portal
- 10 year standard guarantee

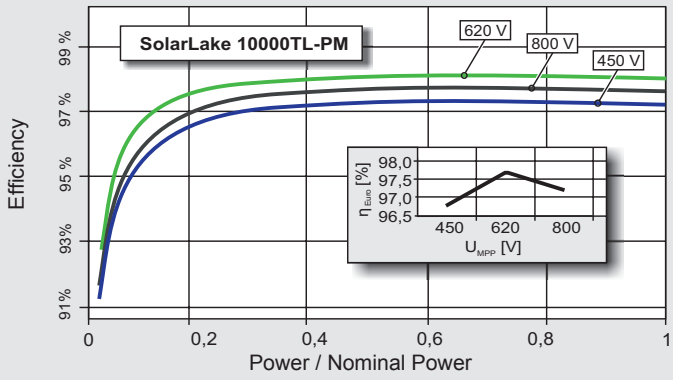
If input current is not enough, customer can set two MPPT in parallel.

Step 1 Setting MPPT in parallel in LCD display screen.



Step 2 Utilizing Y connector to make two positive terminal and two negative terminal in parallel.





	SolarLake 5500TL-PM	SolarLake 7000TL-PM	SolarLake 8500TL-PM	SolarLake 10000TL-PM
Input (DC)				
Max. DC power (@cosφ=1) total / per MPP input	5800 W / 3500 W	7400 W / 4500 W	8900 W / 5500 W	10500 W / 6500 W
Max. input voltage	1000 V			
MPP voltage range / rated input voltage	250 V - 800 V / 620 V	320 V - 800 V / 620 V	390 V - 800 V / 620 V	450 V - 800 V / 620 V
Min. input voltage / initial input voltage	250 V / 300 V			
Max. input current input A / input B	11.5 A / 11.5 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	2 / 1			
Output (AC)				
Rated power (@ 230 V / 50 Hz)	5500 W	7000 W	8500 W	10000 W
Max. apparent AC power	5500 VA	7000 VA	8500 VA	10000 VA
Nominal AC voltage / range	3 / N / PE, 230 V, 400 V / 180 V - 277 V per phase			
AC frequency / range	50 Hz, 60 Hz / 44 Hz - 55 Hz, 54 Hz - 65 Hz			
Rated grid voltage / rated grid frequency	230 V / 50 Hz			
Max. output current	8 A	10 A	12.3 A	14.5A
Power factor at rated power	1			
Displacement power factor, adjustable	0.8 leading - 0.8 lagging			
Feed-in phases / connection phases	3 / 3			
Efficiency				
Max. Efficiency / European weighted efficiency	98.0 % / 97.2 %	98.0 % / 97.5 %	98.1 % / 97.5 %	98.1 % / 97.6 %
Protective devices				
DC disconnect device / AC disconnect device	○ / - (EU: ● / -)			
Ground fault monitoring / grid monitoring	● / ●			
DC reverse polarity protection / AC short-circuit current capability	● / ●			
Galvanic isolation	-			
All-pole-sensitive residual-current monitoring	●			
Protection class (according to IEC 62103) / Overvoltage category (according to IEC 60664-1)	I / II (DC), III (AC)			
General data				
Dimensions (W / H / D)	440 / 580 / 210 mm			
Weight	24 kg			
Operating temperature range	-25 °C … +60 °C			
Noise emission (typical)	< 35 dB			< 47 dB
Self-consumption (night)	0 W			
Topology	Transformerless			
Cooling concept	Convection			Fan
Degree of protection (according to IEC 60529)	IP65			
Maximum humidity (non-condensing)	95 %			
Features				
DC connection / AC connection	Multi-Contact MC4, Amphenol MC4 / AC-plug			
Display	3.5" TFT LCD			
Interface: RS485 / Wi-Fi / Ethernet	○ / ○ / ●			
Multi-function relay / digital input	3 / 4			
Guarantee: 10 / 15 / 20 / 25 years	● / ○ / ○ / ○			
Certificates and approvals (additional on request)	CE, VDE 0126-1-1, G83/2, EN 61000-3-2/3, EN 6100-6-1/2/3/4, IEC 62109-1/2, VDE AR-N4105, CEI 0-21, AS 4777.2/3, AS 3100:2009, C10/11, EN 50438, UTE C15-712-1, IEC 62116, IEC 61727			

● Standard features ○ Optional features — Not available