



Efficient

- Maximum efficiency of 98 %

Safe and Reliable

- Integrated web server for system management and monitoring

Flexible

- Greater versatility thanks to multistring technology

Easy-to-Use

- Innovative installation concept
- Ergonomic design and low weight

FLX PRO 15 / FLX PRO 17

Three-phase inverters for small to medium-sized PV systems

The new line of three-phase inverters is the ideal solution for small to medium-sized PV systems. The inverters feature easy installation, high yields, simple commissioning and operation, integrated power management and excellent flexibility in PV system design.

The new, simplified installation concept offers exceptional ergonomics and unrestricted access to the installation area. Weighing no more than 39 kilograms, the inverters are very easy to handle and install.

FLX PRO 15 / FLX PRO 17

Provisional Technical Data, 06/2014

Alternating Voltage (AC)

Nominal apparent power
Nominal active power
Reactive power range
Nominal AC voltage range
Nominal AC current
Max. AC current
AC total harmonic distortion (THD %)

Power factor—standard

Power factor—regulated

Standby consumption

Nominal power frequency (frequency range)

Direct Current (DC)

Max. PV power per MPPT

PV nominal power, total

Nominal DC voltage

Active MPPT voltage range / MPPT voltage range during rated operation

Max. DC voltage

System start-up voltage (DC)

System shutdown voltage (DC)

Max. DC MPPT current

Max. DC short-circuit current

MPPT trackers/DC inputs

Efficiency

Max. efficiency

EU efficiency at nominal DC voltage

MPPT efficiency, static

Enclosure

Dimensions (W / H / D) / including packaging

Weight

Protection class

Noise emissions

Operating temperature range

Relative humidity

Other

Active power

Reactive power

Interfaces

Options

Cooling concept

Safety

Certifications and approvals

Electrical safety

Functional safety

Ordering code*

FLX Pro 15

15 kVA
15 kW
0 to 9.0 kVA_r
3×21.7 A
3×22.6 A
<2 %

	FLX Pro 15	FLX Pro 17
Nominal apparent power	15 kVA	17 kVA
Nominal active power	15 kW	17 kW
Reactive power range	0 to 9.0 kVA _r	0 to 10.2 kVA _r
Nominal AC voltage range	3P+N+PE to 230/400 V (+/- 20 %)	
Nominal AC current	3×21.7 A	3×24.7 A
Max. AC current	3×22.6 A	3×25.6 A
AC total harmonic distortion (THD %)	<2 %	<2 %
Power factor—standard	>0.99 at nominal power	
Power factor—regulated	0.8 overexcited ... 0.8 underexcited	
Standby consumption	2.7 W	
Nominal power frequency (frequency range)	50 Hz (+/- 5 Hz)	
Max. PV power per MPPT	8 kW	
PV nominal power, total	15.5 kW	17.6 kW
Nominal DC voltage	715 V	
Active MPPT voltage range / MPPT voltage range during rated operation	220/430 to 800 V	220/485 to 800 V
Max. DC voltage	1000 V	
System start-up voltage (DC)	250 V	
System shutdown voltage (DC)	220 V	
Max. DC MPPT current	12.0 A per input	
Max. DC short-circuit current	13.5 A per input	
MPPT trackers/DC inputs	3 / 3 (SUNCLIX)	
Max. efficiency	98.0 %	98.0 %
EU efficiency at nominal DC voltage	97.4 %	97.4 %
MPPT efficiency, static	99.9 %	
Dimensions (W / H / D) / including packaging	500 × 667 × 233 mm / 570 × 774 × 356 mm	
Weight	39 kg	
Protection class	IP 65	
Noise emissions	55 db(A)	
Operating temperature range	-25 °C to +60 °C (possible power derating above +45 °C)	
Relative humidity	95 % (non-condensing)	
Active power	Fixed threshold, setpoint curves, remote control	
Reactive power	Constant, setpoint curves, remote control	
Interfaces	Ethernet, RS 485	
Options	GSM modem, sensor interface, power management	
Cooling concept	Fan	
Certifications and approvals	See www.SMA-Solar.com	
Electrical safety	IEC 62109-1/IEC 62109-2	
Functional safety	(Class I, grounded – Communication part Class II, PELV)	
	Islanding detection/grid failure—three-phase monitoring	
	Active frequency shifting and frequency change rate,	
	Voltage and frequency monitoring,	
	DC feed-in monitoring, insulation resistance monitoring	
	Residual-current monitoring unit (RCMU)—Type B monitoring	
Ordering code*	139F2105	139F2106

*The devices are temporarily delivered with a cover that does not have the color shown in the picture.

www.SMA-Solar.com

SMA Solar Technology