



Micro-Inverter SolarPond 240HF / SolarPond 240HF-US plus SolarWatcher 100

SIMPLE. FLEXIBLE.

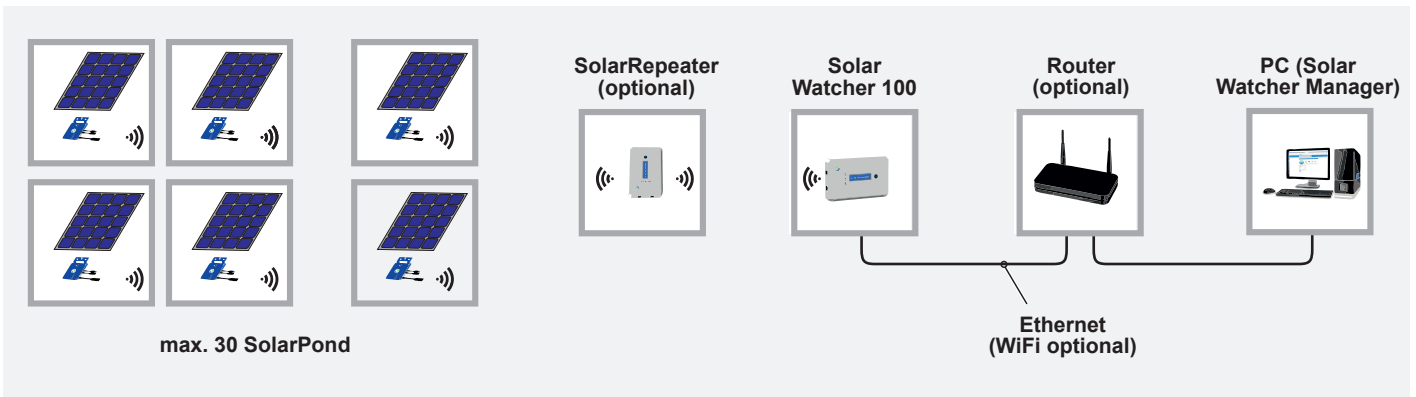
- System solution for small PV systems
- Minimizes impact of shading, dust and debris
- Easy installation with ready-made AC-cable

OPEN. INTERACTIVE.

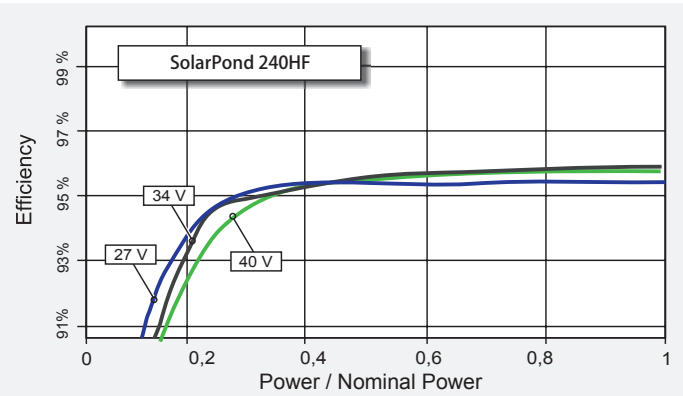
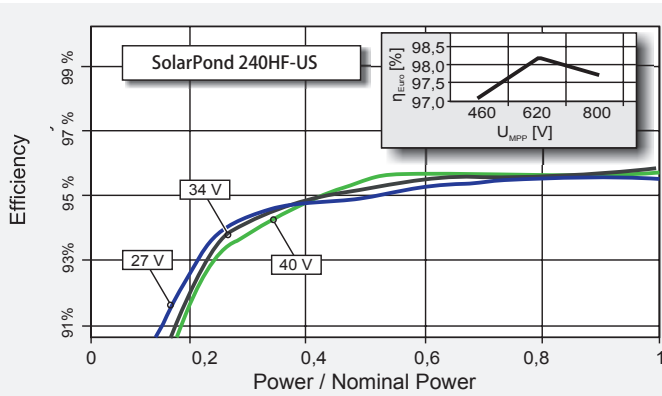
- Wireless inverter communication via ZigBee
- Flexible communication via Ethernet, Wi-Fi and GSM

SECURE. EFFICIENT.

- Real-time local and remote panel level system diagnosis
- Free access to the Samil Power monitoring portal
- 1 year standard guarantee *



	SolarWatcher 100
Communication	
Interface to SolarPond	ZigBee (IEEE 802.15.4)
Interface: Wi-Fi / Ethernet	○ / ●
Maximum number of SolarPonds polled	30
Power Requirements	
AC-supply	100 V - 240 V / 50 Hz, 60 Hz
Power consumption	2.5 W typical, 5 W maximum
Mechanical Data	
Dimensions (W / H / D)	222 / 105 / 45 mm (8.7 / 4.1 / 1.8 in)
Weight	340 g (0.75 lb)
Operating temperature range	-20 °C ... +50 °C (-4 °F ... +122 °F)
Cooling concept	Convection
Enclosure environmental rating	Indoor (NEMA 1)
Features	
Guarantee	1 years
Certificates and approvals (additional on request)	RTTE 1999/5/CE, EN 60950-1, EN 300 328 V1.7.1, EN 62311:2008, EN 301 489-1 V1.9.2, EN 301 489-17 V2.2.1, UL 60950-1, CSA C22.2 No. 60950-1, FCC Part 15, CLASS B
● Standard features ○ Optional features — Not available	
Technical changes reserved	



	SolarPond 240HF	SolarPond 240HF-US
Input (DC)		
Max. DC power (@cosφ=1)	250 W	
Max. input voltage	48 V	
MPP-voltage range / nominal voltage	27 V - 40 V / 35 V	
Min. input voltage / start voltage	21 V / 25 V	
Max. input current	9.5 A	
Max. input current per string	9.5 A	
Number of independent MPP-inputs / strings per input	1 / 1	
Output (AC)		
Rated power (@ 230 V / 50 Hz)	240 W	
Max. apparent AC power	240 VA	
Nominal AC voltage / range	230 V / 207 V - 264 V	208 V / 183 V - 229 V 240 V / 211 V - 264 V
AC frequency / range	50 Hz / 47.5 Hz - 52.5 Hz	60 Hz / 59.3 Hz - 60.5 Hz
Rated grid voltage / rated grid frequency	230 V / 50 Hz	240 V / 60 Hz
Max. output current	1.16 A	1.27 A @ 208 V 1.1 A @ 240 V
Power factor at rated power	> 0.95	
Displacement power factor, adjustable	-	
Feed-in phases / connection phases	1 / 1	2 / 2
Efficiency		
Max. efficiency / Weighted efficiency	96 % / 95 % (Euro-eta)	96 % / 95.5 % (CEC-eta)
Protective devices		
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)	165 / 170 / 32 mm (6.5 / 6.7 / 1.3 in)	
Weight	2 kg (4.4 lb)	
Operating temperature range	-40 °C ... +85 °C (-40 °F ... +185 °F)	
Noise emission (typical)	< 28 dB	
Self-consumption (night)	50 mW	
Topology	HF transformer	
Cooling concept	Convection	
Degree of protection (IEC 60529 / NEMA ICS 6)	IP67 / NEMA 6	
Maximum humidity (non-condensing)	95 %	
Features		
DC connection / AC connection	Amphenol MC4 / Amphenol 3 wire plug	Amphenol MC4 / Amphenol 4 wire plug
Interface to SolarWatcher 100	ZigBee (IEEE 802.15.4)	
Guarantee	1 year	
Certificates and approvals (additional on request)	CE, AS 4777:2005-2/3, AS 3100:2009 Inc A1, G83/2, EN 61000-6-2/3, CEI 0-21, IEC 62109-1/2, VDE AR-N 4105	UL1741, IEEE 1547, IEEE 1547.1, FCC Part 15. (Class B), CSA C22.2 No. 107.1-01