

S SERIES



IP65 Weather Protection



Excellent Low Light Sensitivity



Rugged cast Aluminium Chassis



WiFi module as standard for free



5 Year Warranty Standard



Leading edge capacitor control technology



Dynamic MPPT efficiency >99.9%
(Euro efficiency >97.3%)

Optional color
Yellow

Optional color
Gray

Optional color
Blue

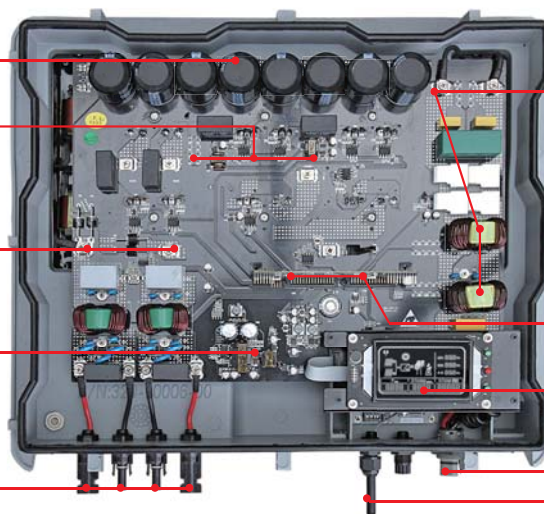
High quality electrolytic capacitors from
EPCOS & NCC

Core components, from Fairchild &
Infineon, long lifetime and high efficiency

Latest DC capacitors, dual dynamic trackers,
make your system always work at max power

Intelligent microchips from ST Microelectronics
enable the inverter to operate from 75Volts

Industry standard MC4 Connectors



Amorphous Core Components from leading
technology supplier Hitachi ensure this
inverter is efficient & stable in operation

Dual Core Processor from Texas Instruments
uses the same technology found on
smartphones and tablets

LCD display has a 50,000 hrs continuous
operation lifespan

Weatherproof AC connectors

Smart WiFi system from MARVELL allows
consumers to monitor their PV system
performance in real time

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TECHNOLOGY PARAMETERS

Model No	S3600TL	S4400TL	S5000TL
DC side/Input parameters			
Max. DC power [W]	3600	4400	5000
Max. DC voltage [Vdc]	550	550	550
Min.System start/Operating voltage[Vdc]	75/100	75/100	75/100
MPPT voltage range[Vdc]	100~550	100~550	100~550
Max. input current [A]	13.5/13.5	13.5/13.5	15/15
Number of MPP trackers	2	2	2
Strings per MPP tracker	1	1	1
AC side/output parameters			
Nominal output power [W]	3300	4000	4600
Maximum output power [W]	3600	4400	5000
Nominal output voltage/range [V]	208,220,230,240/180~270	208,220,230,240/180~270	208,220,230,240/180~270
AC grid frequency/range [Hz]	50,60/±4.5 auto-selection	50,60/±4.5 auto-selection	50,60/±4.5 auto-selection
Maximum output current [A]	16	21	23
AC connection(with PE)	Single phase	Single phase	Single phase
Current distortion(THDi) [%]	<2.5	<2.5	<2.5
Power factor [%]	> 99.95	> 99.95	> 99.95
Efficiency			
Maximum conversion efficiency[%]	97.5	97.6	97.8
European efficiency[%]	97.1	97.2	97.3
MPPT efficiency[%]	99.9	99.9	99.9
Protection			
DC reverse-polarity protection	yes	yes	yes
Short circuit protection	yes	yes	yes
Ground fault/residential current monitoring	yes	yes	yes
Grid monitoring	yes	yes	yes
DC/AC side varistors(thermally protected)	yes	yes	yes
General Parameters			
Dimension(L/W/H)[mm]	480*400*180		
Weight (kg)	20.1		
Embedded DC Switch	Optional		
Night Mode support	Optional		
Night power consumption[W]	< 0.2		
Isolation type	Transformerless		
Protection degree	IP65		
Operation temperature[°C]	-25 ~ 60		
Heat Dissipation	Convection		
Acoustic noise level[dB]	<25		
Altitude[m]	<2000 without power derating		
Storage temperature[°C]	-30 ~ 80		
Real Time Clock module	yes		
LCD Display	Graphic and digital segment		
Communication Interface	Standard Wifi		