

# F SERIES DUAL MPPT INVERTERS ON GRID SERIES



## TECHNICAL SPECIFICATIONS

Model	F3000	F3600	F4600	F5000	F5300*	F6000
<b>INPUT</b>						
<b>PV</b>						
Max. Recommended DC Power [W]	4500	5400	6900	7500	7950	9000
Max. DC Voltage [V]	600	600	600	600	600	600
Nominal DC Operating Voltage [V]	360	360	360	360	360	360
Max. Input Current (input A/input B) [A]	14/14					
Max. Short Circuit Current (input A/input B) [A]	18/18					
MPPT Voltage Range [Vdc]	80-550	80-550	80-550	80-550	80-550	80-550
Start-up Voltage [V]	120	120	120	120	120	120
No. of MPP Trackers	2	2	2	2	2	2
Strings Per MPP Tracker	1	1	1	1	1	1
<b>OUTPUT</b>						
<b>AC</b>						
Nominal AC Power [W]	3000	3600	4600	5000	5300	6000
Max. Apparent AC Power [VA]	3300	3960	5060	5500	5830	6000
Rated Grid Voltage [Vac]	220/230/240					
Rated Grid Frequency [Hz]	50/60, ±5					
Nominal AC Current [A]	13.0	15.7	20.0	21.7	23.0	26.1
Max. AC Current [A]	14.3	17.2	22.0	23.9	25.3	26.1
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)					
Total Harmonic Distortion (THDi, Nominal output)	<3%	<3%	<3%	<3%	<3%	<3%
<b>EFFICIENCY</b>						
MPPT Efficiency	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
Euro-efficiency	96.80%	96.80%	96.80%	96.80%	96.80%	96.80%
Max. Efficiency	97.40%	97.40%	97.40%	97.40%	97.40%	97.40%
<b>PROTECTION</b>						
DC Reverse-polarity Protection	YES					
Anti-Islanding Protection	YES					
Insulation Monitoring	YES					
Residual Current Monitoring	YES					
AC Short Circuit Protection	YES					
AC Output Over Current Protection	YES					
AC Output Over Voltage Protection	YES					
Surge Protection	YES					
Temperature Protection	YES					
Integrated DC Switch	Optional					
<b>STANDARD</b>						
Safety	IEC 62109-1/2					
EMC	IEC 61000-6-1/IEC 61000-6-2/IEC 61000-6-3					
Certification	AS4777.2-2015/G98-1/G99-1/EN50549-1/IEC 61727					
<b>GENERAL DATA</b>						
Dimensions (WxHxD) [mm]	402*476.5*148					
Net Weight [kg]	15.5					
Cooling Concept	Natural					
Ingress Protection (according to IEC60529)	IP65					
Topology	Transformerless					
Over Voltage Category	III (AC side), II (PV side)					
Noise Emission (typical) [dB]	<30					
Operating Temperature Range	-20..... +60°C (derating at +45°C)					
Storage Temperature Range	-40..... +70°C					
Humidity	0-100% (no condensation)					
Self Consumption (night) [W]	<1W					
Monitoring Module (optional)	External WIFI/Lan/GPRS (optional)					
Communication	Meter, CT, DRM, USB update, RS485					
Display	LCD screen, Touch Key, App, Web site					

\*Brazil market only.