



» R5 features: SWIFT



eSolar WIFI-D Module

- Quick start-up commissioning •
- Key information on OLED display •
- Quick internet connection via WPS •

Wireless Communication

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R5 Series Residential Solar Inverter

R5-3K/3.6K/4K/5K/6K/7K/8K-S2



- ⚡ Lightning protection
High precision leakage monitoring
- ⚙️ Die-casting case cover
Beautiful & reliable
- ⚡ Low standby consumption
High efficiency, high yield
- 📶 Bluetooth APP connection
All data at real time
- 🔧 Remote Maintenance
Remote Configuration
- 🔇 Quiet generation
No noise pollution
- 🌐 Intelligent & Grid-friendly
Active response to grid dispatch

Technical Data

R5-3K/3.6K/4K/5K/6K/7K/8K-S2

Type	R5-3K-S2	R5-3.6K-S2	R5-4K-S2		R5-5K-S2	R5-6K-S2	R5-7K-S2	R5-8K-S2
Input (DC)								
Recommended Accessed DC Power ¹ [W]	3630	4420	4840		6050	7200	8470	9600
Max. DC Voltage [V]					600			
MPPT Voltage Range [V]					90-550			
Nominal DC Voltage [V]					360			
Start Voltage [V]					100			
Min. DC Voltage[V]					80			
Max. DC Input Current PV1/PV2 [A]			12.5/12.5				25/12.5	
Number of DC Connection Sets Per MPPT			1/1				2/1	
Number of MPPT					2			
DC Switch					Integrated			
Output [AC]								
Rated AC Power [W]	3000	3680	4000		4600 ² /5000 ³ /5000	6000	7000	8000
Max. AC Power [VA]	3300	3680	4400		4600/5000/5500	6000	7700	8000
Rated AC Current [A]	13.1	16.0	17.4		21.8	26.1	30.5	34.8
Max. AC Current [A]	14.4	16.0	19.2		24.0	26.1	33.5	34.8
Nominal AC Voltage/ Range [V]					220,230,240/180-280			
Grid Frequency/ Range [Hz]					50,60/45-55,55-65			
Power Factor [cos ϕ]					0.8 leading~0.8 lagging			
Total Harmonic Distortion [THDi]					< 2%(at nominal power)			
Feed-in					L+N+PE			
Efficiency								
Max. Efficiency	97.8%	98.0%	98.0%		98.1%	98.2%	98.2%	98.3%
Euro Efficiency [@360Vdc]	97.2%	97.5%	97.5%		97.6%	97.6%	97.7%	97.8%
MPPT Accuracy					>99.9%			
Protection								
Internal Over-voltage Protection					Integrated			
DC Insulation Monitoring					Integrated			
DCI Monitoring					Integrated			
GFCI Monitoring					Integrated			
Grid Monitoring					Integrated			
AC Short Circuit Current Protection					Integrated			
AC Grounding detection					Integrated			
DC Surge Protection					Integrated			
AC Surge Protection					Integrated			
Thermal Protection					Integrated			
Anti-island Protection Monitoring					AFD			
Interface								
DC Connection					MC4			
AC Connection			Plug-in connector				Terminal Block	
Human Machine Interface					LED + (bluetooth/Wi-Fi+APP)			
Communication Port					RS232(USB joints)+RS485(RJ45 crystal joints)			
Communication Mode					Wi-Fi / GPRS / 4G(Optional)			
General Data								
Topology					Transformerless			
Consumption at Night [W]					<0.2			
Consumption at Standby [W]					6			
Operating Temperature Range			-40°C to +60°C (running in reduced load condition when the temperature is above 45°C)					
Cooling Method					Natural Convection			
Ambient Humidity					0-100% Non-condensing			
Altitude					4000m (>3000m power derating)			
Noise [dBA]					<25			
Ingress Protection					IP65			
Mounting					Rear Panel			
Dimensions [H*W*D][mm]			389*367*143				429*418*177	
Weight [kg]			12.2				18	
Standard Warranty [Year]					5 (standard)/10/15/20/25 (Optional)			
Certificates		IEC62109-1/2,IEC61000-6-1/2/3/4,EN50438,C10/C11,IEC62116,IEC61727,RD1699,UNE 206006,UNE 206007,CEI 0-21,AS4777.2,CQC NB/T 32004-2013,VDE-AR-N 4105						

Remarks: 1. 1000W/M² 25°C 2. Meet the VDE - ARN - N 4105 that biggest apparent power of single-phase is 4600 VA. 3.Applicable to Belgian grid standatrd. 4. The above parameters might be slightly modified accordng to different grid codes.