



AVAADA ELECTRO



Avaada offers complete rooftop solar kits to power your home, shop, or farm with our Ready-to-Install Solar Kit – designed for Indian conditions, offering reliable performance, low maintenance, and quick payback.

These systems are **eligible under both Central and State Government subsidy schemes**, making solar adoption more affordable and efficient.

Avaada Solar Kit includes
Solar Inverter, AC & DCDB,
Lightning arrester,
Earthing Kit, harnesses and
connectors etc for faster and
smoother installation



SYSTEM FEATURES

-  **Large LCD Display** – Easy monitoring and quick access to system information
-  **Power Export Limitation** – Control and optimize energy export to the grid
-  **Compact & Easy to Install** – Space-saving ^{and light weight} design with simple setup
-  **Multiple Communication Options** – WiFi / GPRS / LAN (optional) for smart connectivity
-  **User-Friendly Interface** – Fault codes and system status visible directly on the LCD display
-  **Built-in Power Limiter (Optional)** – Efficient management of power output
-  **Enhanced Safety** – Complies with international quality and safety standards
-  **IP65 Rated Protection** – Suitable for outdoor installation, resistant to dust and water

Solar Grid Tie Inverter - Single Phase Specification:

DC Side / Input Parameters

Max DC power (W)	1500 W	3300 W	4500 W
Max DC voltage (Vdc)	550		
Min System start/Shut down voltage (Vdc)	65/70	75/100	755/100
MPPT voltage range(Vdc)	70-500	100-500	100-500
Max. input current (A)	18 A		
Max. input short circuit per MPPT	25 A		
Number of MPP trackers	1		
Strings per MPP tracker	1		

AC Side / Input Parameters

Nominal output power (W)	1000	2200	3000
Maximum output power (W)	1100	2400 2420	3300
Nominal output voltage/range (V)	208, 220, 230, 240/180 ~ 270		
AC grid frequency/range (Hz)	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz		
Maximum output current (A)	6	12	16
AC connection (with PE)	Single phase		
Current distortion(THDi)	<1.5%		
Power factor	~1% (Adjustable from 0.8 leading to 0.8 lagging)		

Efficiency

Typical Noise Level Max conversion efficiency	97.3%	97.4%	97.5%
Overvoltage Category Euro efficiency	97.0%	97.1%	97.2%
Operating Temperature MPPT efficiency	99.9%	99.9%	99.9%

Safety and Protection

DC reverse-polarity protection	Yes
Anti-islanding / Overvoltage protection	Yes
Short circuit protection	Yes
Leakage current protection	Yes
Grid / Ground fault monitoring	Yes
DC/AC side SPD(thermally protected)	Yes

General Parameters

Dimension (L x W x H) mm	300 x 294 x 104
Weight (kg)	5
Night power consumption (W)	< 0.2
Isolation type	Transformer less Transformerless
Protection degree	IP65 according to IEC60529
Operation temperature (°C)	-25 ~ +60
Cooling concept	Smart Cooling
Operating Altitude (m)	<2000m without power derating
Acoustic noise level (dB)	< 25
Display	Graphic LCD
Communication Interface	Standard WIFI; RS485 (optional)
Standards & Certifications	CE-(EMC/LVD) : EN(IEC) 61000-1/- 2/-3/; EN(IEC) 62109-1/-2