

Input (PV)

Max. PV Input Voltage	1500 VDC
Startup PV Voltage	820 VDC
MPPT Operation Voltage Range	880 ~ 1200 VDC
Max Input Current	370*2 A
MPPT Number	1
Max Input Strings Number	4

Output (Grid)

Nominal Output Power	1250 kW
Max Output Power	1375 kVA
Nominal Grid Voltage/ Frequency	3/N/PE 800 VAC/50Hz
Max Output Current	902 A
PF at Nominal Power Range	>0.99 (0.9Lead~0.9Lag)
THDi	< 3%

General

Display	HMI
Communication Port	RS485, Optional: Ethernet
Dimensions (W*H*D)	1200*2260*1000 mm
Weight	1000 kg
Operating Temperature Range	-10 ~ +55°C (After 35°C Derating)
Cooling Method	Fan Cooling
Max. Operation Altitude	6000 m (Derating above 3000 m)

Protection

Input DC Switch	Yes
DC Reverse Polarity Protection	Yes
Anti-Islanding Protection	Yes
Short Circuit Protection	Yes
Output Over Current Protection	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Insulation Impedance Detection	Yes
Ground Fault Monitoring	Yes
Residual Leakage Current Detection	Yes

Other

LVRT Function	Yes
AC Side Parallel Technology	Yes
Anti-PID Function	Optional

Other –

Fault Wave Record Diagnosis	Yes
Online Upgrade	Yes

Standard

Grid Connection Standard	IEC 62116, IEC 61727, IEC 61683
Safety EMC Standard	IEC/EN 62109-1, IEC/EN 62109-2

Efficiency

Max Efficiency	>97%

JDEVS

COMPANY PROFILE

Jahad daneshgahi elm va Sanat (established 1980) is among Iran's leading PV inverter manufacturers. JDEVS delivers solar and energy storage solutions across residential, commercial, and utility-scale markets through three core strengths:

String Technology & Reliability. Our inverters leverage innovative string-level power conversion architecture with international certifications, ensuring top-tier performance across diverse climates and operating conditions.

Regional Expertise. By combining global R&D capabilities with dedicated local teams, we engineer customized solutions for each market—delivering performance, not commodity products.

Financial Trust. Proven bankability and strategic partnerships with leading financial institutions provide stakeholders with confidence in long-term value creation and sustainable investment returns.

Proven Field Performance. JDEVS inverters operate in installations nationwide, powering residential, commercial, and utility-scale systems. All systems comply with SGS certificate, supported by 5-year comprehensive warranty and 24/7 technical support.

JDEVS: Advancing Iran's energy independence through reliable, locally-engineered solar solutions.

sustainable future.





