

SOLAR INVERTERS

ABB string inverters

UNO-DM-1.2/2.0/3.0-TL-PLUS 1.2 to 3.0 kW



The new UNO-DM-PLUS single-phase inverter family, with power ratings from 1.2 to 3.0 kW, is the optimal solution for residential installations.

UNO-DM-1.2/2.0/3.0 TL-PLUS outdoor string inverter

One size fits all

The new design wraps ABB's quality and engineering into a lightweight and compact package thanks to technological choices optimized for installations with a uniform orientation.

All power ratings share the same overall volume, allowing higher performance in a minimum space.

Easy to install, fast to commission

The presence of plug and play connectors, both on the DC and AC side, as well as the wireless communication, enable a simple, fast and safe installation without the need of opening the front cover of the inverter.

The featured easy commissioning routine removes the need for a long configuration process, resulting in lower installation time and costs.

Improved user experience thanks to a build in User Interface (UI), which enables access to features such as advanced inverter configuration settings, dynamic feed-in control and load manager, from any WLAN enabled devices (smartphone, tablet or PC).

Smart capabilities

The embedded logging capabilities and direct transferring of the data to Internet (via Ethernet or WLAN) allow customers to enjoy the whole Aurora

Vision® remote monitoring experience.

The advanced communication interfaces (WLAN, Ethernet, RS485) combined with an efficient Modbus (RTU/TCP) communication protocol, Sunspec compliant, allow the inverter to be easily integrated within any smart environment and with third party monitoring and control systems.

A complete set of control functions with the embedded efficient algorithm, enabling dynamic control of the feed-in (i.e. zero injection), make the inverter suitable for worldwide applications in compliance with regulatory norms and needs of the utilities.

The future-proof and flexible design enables integration with current and future devices for smart building automation.

Highlights

- Wireless access to the embedded Web User Interface
- Easy commissioning capability
- Future-proof with embedded connectivity for smart building and smart grid integration
- Dynamic feed-in control (for instance "zero injection")
- Remote Over The Air (OTA) firmware upgrade for inverter and components
- Modbus TCP/RTU Sunspec compliant
- Remote monitoring via Aurora Vision® cloud

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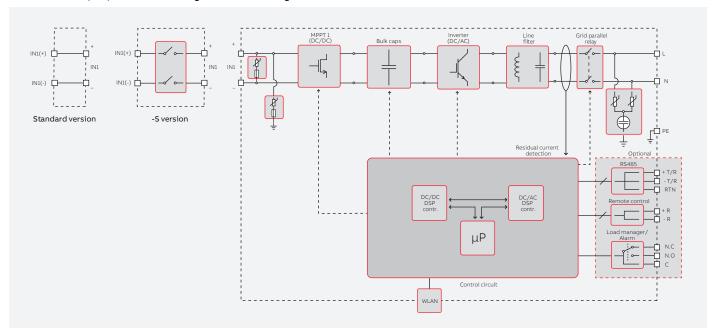
UNO-DM-1.2/2.0/3.0-TL-PLUS 1.2 to 3.0 kW



Technical data and types

Type code	UNO-DM-1.2-TL-PLUS	UNO-DM-2.0-TL-PLUS	UNO-DM-3.0-TL-PLUS	
Input side				
Absolute maximum DC input voltage (V _{max,abs})		600 V		
Start-up DC input voltage (V _{start})	120 V (adj. 100150 V)	150 V (adj. 100250 V)	150 V (adj. 100250 V)	
Operating DC input voltage range (V _{dcmin} V _{dcmax})	0.7 x V _{start} 580 V (min 90 V)			
Rated DC input voltage (V _{dcr})	185 V	300 V	300 V	
Rated DC input power (P _{dcr})	1500 W	2500 W	3300 W	
Number of independent MPPT	1	1	1	
Maximum DC input power for each MPPT (PMPPTmax)	1500 W	2500 W	3300 W	
DC input voltage range with parallel configuration of MPPT at Pacr	100530 V	210530 V	320530 V	
DC power limitation with parallel configuration of MPPT	N/A	N/A	N/A	
DC power limitation for each MPPT with independent configuration of MPPT at Pacr,	N/A	N/A	N/A	
max unbalance example Maximum DC input current (Idcmax) / for each MPPT (IMPPImax)	10.0 A	10.0 A	10.0 A	
Maximum input short circuit current for each MPPT	12.5 A	12.5 A	12.5 A	
Number of DC input pairs for each MPPT	1			
DC connection type ¹⁾	Quick Fit PV Connector			
Input protection				
Reverse polarity protection	Yes, from limited current source			
Input over voltage protection for each MPPT-varistor	Yes			
Photovoltaic array isolation control	According to local standard			
DC switch rating for each MPPT (version with DC switch)	25 A / 600 V			
Output side				
AC grid connection type	Single-phase			
Rated AC power (P _{acr} @cosφ=1)	1200 W	2000 W	3000 W	
Maximum AC output power (P _{acmax} @cosφ=1)	1200 W	2000 W	3000 W	
Maximum apparent power (S _{max})	1200 VA	2000 VA	3000 VA	
Rated AC grid voltage (V _{ac,r})	230 V			
AC voltage range ²⁾	180264 V			
Maximum AC output current (I _{ac,max})	5.5 A	10.0 A	14.5 A	
Contributory fault current	10.0 A	12.0 A	16.0 A	
Rated output frequency (f _r) 3)	50/60 Hz			
Output frequency range (f _{min} f _{max}) ³⁾	4753/5763 Hz			
Nominal power factor and adjustable range	> 0.995, adj. ± 0.1 - 1 (over/under excited)			
Total current harmonic distortion	< 3%			
AC connection type	Female connector from panel			
Output protection				
Anti-islanding protection	According to local standard			
Maximum external AC overcurrent protection	10.0 A	16.0 A	16.0 A	
Output overvoltage protection - varistor	2 (L - N / L - PE)			

ABB UNO-DM-1.2/2.0/3.0-TL-PLUS string inverter block diagram



Technical data and types

Optional communication interface Optional communication protocol Optional board UNO-DM-PLUS Ethernet COM kit Optional communication interface Optional communication interface Optional communication interface Optional communication interface Optional communication protocol Optional communication Optional communication protocol Optional communication Optional communication Optional communication Optional communication Optional communication Opt	Type code	UNO-DM-1.2-TL-PLUS	UNO-DM-2.0-TL-PLUS	UNO-DM-3.0-TL-PLUS		
Weighted efficiency (EURO/CEC) Feed in power threshold Night consumption Embedded communication Embedded communication interface Embedded communication protocol Enter Plant Portfolio Manager, Plant Viewer, Plant Viewer for Mobile Optional board UNO-DM-COM kit Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication protocol Enternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional Communication interface Esternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay Optional Communication interface Esternet, RS485 (use with meter						
Feed in power threshold 8 W Night consumption 4.0.4 W Embedded communication Embedded communication interface © Wireless Embedded communication protocol ModBus TCP (SunSpec) Commissioning tool Web User Interface, Display, Aurora Manager Lite Monitoring Plant Portfolio Manager, Plant Viewer, Plant Viewer for Mobile Optional board UNO-DM-COM kit Plant Portfolio Manager, Plant Viewer, Plant Viewer for Mobile Optional communication interface RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay	Maximum efficiency (η _{max})	94.8%	96.7%	96.7%		
Night consumption Embedded communication interface ¹ Embedded communication interface ¹ Wireless Embedded communication protocol ModBus TCP (SunSpec) Commissioning tool Web User Interface, Display, Aurora Manager Lite Monitoring Plant Portfolio Manager, Plant Viewer, Plant Viewer for Mobile Optional board UNO-DM-COM kit RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, ON/OFF Optional communication protocol ModBus RTU (SunSpec), Aurora Protocol Optional communication interface Ethernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF Optional communication interface Ethernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF Optional communication protocol ModBus TTO (SunSpec), Aurora Protocol Enternet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF Optional communication interface Ethernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF Optional communication interface Ethernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF Optional Communication interface Ethernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF <	Weighted efficiency (EURO/CEC)	92.0%/-	95.0%/-	95.0%/-		
Embedded communication interface "Imbedded communication interface "Imbedded communication interface "Imbedded communication protocol Imbedded communication interface Imbedded communication protocol Imbedded Imb	Feed in power threshold		8 W			
Embedded communication interface **O	Night consumption		<0.4 W			
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Optional communication protocol ModBus RTU (SunSpec), Aurora Protocol Optional board UNO-DM-PLUS Ethernet COMkit Optional communication interface Ethernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF Optional communication protocol ModBus TCP (SunSpec), ModBus RTU (SunSpec),	Optional board UNO-DM-COM kit					
Optional board UNO-DM-PLUS Ethernet COM kit Optional communication interface Carbon Serviton Servitor Servito	Optional communication interface	RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF				
Optional communication interfaceEthernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFFOptional communication protocolModBus TCP (SunSpec), ModBus RTU (SunSpec), Aurora ProtocolEnvironmental-25+60°C /-13140°F with derating above 50°C/122°F (derating above 50°C/122°F (Optional communication protocol	ModBus RTU (SunSpec), Aurora Protocol				
Optional communication interface Alarm/Load manager relay, Remote ON/OFF Optional communication protocol ModBus TCP (SunSpec), ModBus RTU (SunSpec), Aurora Protocol Environmental -25+60°C /-13140°F with derating above 50°C/122°F -25+260°C /-13140°F with derating above 50°C/122°F <th colspan<="" td=""><td>Optional board UNO-DM-PLUS Ethernet COM kit</td><td></td><td></td><td></td></th>	<td>Optional board UNO-DM-PLUS Ethernet COM kit</td> <td></td> <td></td> <td></td>	Optional board UNO-DM-PLUS Ethernet COM kit				
Environmental Ambient temperature range Ambient temperature range Relative humidity Acoustic noise emission level Maximum operating altitude without derating Physical Environmental protection rating Environmental protection rating derating above 50°C/12°E 50 dBA © 40 dBA © 50 dBA © 40 dBA	Optional communication interface					
Ambient temperature range -25+60°C /-13140°F with derating above 50°C /122°F on140°F with derating above 50°C /122°F on100 % condensing Acoustic noise emission level Maximum operating altitude without derating Physical Environmental protection rating Environmental protection rating Cooling Natural Dimension (H x W x D) S53 x 418 x 175 mm / 21.8" x 16.5" x 6.9" Weight Mounting system Safety Isolation level Transformerless Marking CE , RCM Safety and EMC standard Grid standard (check your sales channel for availability) 50 Available products variants Standard UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-TL-PLUS-B UNO-DM-3.0-TL-PL	Optional communication protocol	ModBus TCP (Sur	ModBus TCP (SunSpec), ModBus RTU (SunSpec), Aurora Protocol			
Ambient temperature range Relative humidity Acoustic noise emission level Maximum operating altitude without derating Physical Environmental protection rating Dimension (H x W x D) Weight Mounting system Safety Isolation level Safety Safety Safety and EMC standard Grid standard Check your sales channel for availability) 5 Standard Merating above 50°C/122°F derating above 50°C/120°F derati	Environmental					
Acoustic noise emission level 50 dBA @ 1 m Maximum operating altitude without derating 2000 m / 6560 ft Physical Environmental protection rating IP 65 Cooling Natural Dimension (H x W x D) 553 x 418 x 175 mm / 21.8" x 16.5" x 6.9" Weight 15 kg / 33 lbs Mounting system Wall bracket Safety Isolation level Transformerless Marking CE, RCM Safety and EMC standard [EC/EN 62109-1, IEC/EN 62109-2, AS/NZS 4777.2, EN 61000-6-1, EN 61000-6-2, E 6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3 Grid standard (check your sales channel for availability) 5) Etandard UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-7	Ambient temperature range			-25+60°C /-13140°F with derating above 50°C/122°F		
Maximum operating altitude without derating Physical Environmental protection rating Cooling Natural Dimension (H x W x D) Weight 15 kg / 33 lbs Mounting system Wall bracket Safety Isolation level Marking Safety and EMC standard Grid standard (check your sales channel for availability) 5) Available products variants Standard UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-T	Relative humidity	0100 % condensing				
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Environmental protection rating	Maximum operating altitude without derating	2000 m / 6560 ft				
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Dimension (H x W x D) 553 x 418 x 175 mm / 21.8" x 16.5" x 6.9" Weight 15 kg / 33 lbs Mounting system Wall bracket Safety Isolation level Marking CE, RCM Safety and EMC standard IEC/EN 62109-1, IEC/EN 62109-2, AS/NZS 4777.2, EN 61000-6-1, EN 61000-6-2, EN 61000-3-3 Grid standard (check your sales channel for availability) 5) CEI 0-21, DIN V VDE V 0126-1-1, VDE-AR-N 4105, G83/2, G59/3, RD 413, ITC-BT-40 (A777.2, IEC 61727, IEC 62116 Available products variants UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-TL-PLUS-B	Environmental protection rating	IP 65				
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Solation level Transformerless	Mounting system	Wall bracket				
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Safety and EMC standard IEC/EN 62109-1, IEC/EN 62109-2, AS/NZS 4777.2, EN 61000-6-1, EN 61000-6-2, EN 61000-6-2, EN 61000-6-4, EN 61000-3-3 Grid standard (check your sales channel for availability) 5 CEI 0-21, DIN V VDE V 0126-1-1, VDE-AR-N 4105, G83/2, G59/3, RD 413, ITC-BT-40 4777.2, IEC 61727, IEC 62116 Available products variants UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-TL-PLUS-B UNO-DM-3.0-TL-PLUS-B	Isolation level		Transformerless			
6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3 Grid standard (check your sales channel for availability) 5) Available products variants Standard UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-7	Marking	·				
(check your sales channel for availability) 5) Available products variants Standard UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-T	Safety and EMC standard					
Available products variants Standard UNO-DM-1.2-TL-PLUS-B UNO-DM-2.0-TL-PLUS-B UNO-DM-3.0-T		CEI 0-21, DIN V VDE V 0126-1-1	·			
	Available products variants		· .			
	Standard	UNO-DM-1.2-TL-PLUS-B	UNO-DM-2.0-TL-PLUS-B	UNO-DM-3.0-TL-PLUS-B		
With DC switch UNO-DM-1.2-TL-PLUS-SB UNO-DM-2.0-TL-PLUS-SB UNO-DM-3.0-TL	With DC switch	UNO-DM-1.2-TL-PLUS-SB	UNO-DM-2.0-TL-PLUS-SB	UNO-DM-3.0-TL-PLUS-SB		

^{1) &}quot;Refer to the document "String inverter – Product Manual appendix" available at $www. abb. com/solar inverters\ to\ know\ the\ brand\ and\ the\ model\ of\ the\ quick\ fit$ connector"

²⁾ The AC voltage range may vary depending on specific country grid standard ³⁾ The Frequency range may vary depending on specific country grid standard; CE is valid for 50Hz only

⁴⁾As per IEEE 802.11 b/g/n standard

 $^{^{5)} \}mbox{Further grid standard will be added, please refer to ABB Solar page for further details}$ Remark. Features not specifically listed in the present data sheet $\,$ are not included in



For more information please contact your local ABB representative or visit:

