

ABB SINGLE-PHASE INVERTERS

UNO-DM-2.0/3.3/4.0/5.0-TL-PLUS-(S)B-Q^

The new UNO-DM-PLUS single-phase inverter family, with power ratings from 2.0 to 5.0 kW, is the optimal solution for residential installations.

The new design wraps European quality and engineering into a lightweight and compact package, includes a streamlined physical design with a reduced component count.

The dual maximum power point trackers allow for installations with different orientation. With embedded wireless connectivity and smart grid capabilities, it provides homeowners with advanced monitoring, control and maintenance.

All service software is embedded within the inverter and wirelessly accessible using any smart device or PC. This reduces the operation and maintenance burden for installers and associated costs for home owners.

^Manufactured under trademark licence agreement by FIMER Group.







This feature excludes model UNO-DM-2.0-TL-PLUS-(S)B-Q

HOW YOU BENEFIT



HIGH EFFICIENCY

Transformerless technology for high efficiency of up to 97.4%, generating more power from your PV system.



FLEXIBLE DESIGN

Offers a wide range of features to enable an economical solution for a variety of installation conditions.



SAFE OPERATION

External AC & DC connections allow a quick installation without the need of opening the inverter cover.



INNOVATIVE

Built in Wi-Fi enables wireless access to the embedded Web User Interface and free system monitoring on Aurora Vision.



SOLAHART WARRANTY

Enjoy a 10-year warranty, for peace of mind.*

Technical Data

	UNO-DM-2.0-TL-PLUS-(S)B-Q	UNO-DM-3.3-TL-PLUS-(S)B-Q	UNO-DM-4.0-TL-PLUS-	S)B-Q UNO-DM-5.0-TL-PLUS-(S)B-Q
Input Side Absolute Max. DC input voltage (Vmax, abs)			600 V	
Start-up DC input voltage (Vstart)	150 V (adj. 100250 V) 200 V (adj. 120350 V)			
Operating DC input voltage range	130 v (adj. 100230 v)	150 V (adj. 100250 V) 200 V (adj. 120350 V) 0.7 x V _{start} 580 V (min 90 V)		
Rated DC input voltage (Vdcr)	300 V	U.7 A VStdft	360 V	
Rated DC input power (Pdcr)	2500 W	3500 W	4250 W	5150 W
· '	2300 W	2	4230 VV	2
Number of independent MPPT				
Max. DC input power for each MPPT	2500 W	2000 W	3000 W	3500 W
DC input voltage range with parallel config of MPPT at Pacr	210480 V	170480 V	130530 V	145480 V
DC power limitation with parallel config of MPPT	N/A	Linear derating from Max to	o Null [530 V≤VMPPT≤580 V	/] Linear derating from Max to Nu [480 V≤VMPPT≤580 V]
DC power limitation for each MPPT with independent configuration of MPPT at Pacr	N/A	2000 W [200 V≤VMPPT≤530 V] other channel: Pdcr-2000 W	3000 W [190 V≤VMPPT≤530 other channel: Pdcr-3000 V	
Max DC input current (Idcmax) / for each MPPT (Imax)	10.0 A	20.0 / 10.0 A	32.0 / 16.0 A	30.5/19-11.5 A (MPPT1 - MPPT2
Max. input short circuit current for each MPPT	12.5 A	12.5 / 25.0 A	20.0 / 40.0 A	22.0 / 44.0 A
Number of DC input pairs for each MPPT	12.5 //	12.57 25.0 A	1	22.07 44.074
		MCA	Connectors	
DC connection type Input Protection		IVIC4	Connectors	
•		V (1:		
Reverse polarity protection	Yes, from limited current source			
Input over voltage protection for each MPPT-varistor	YES			
DC Switch rating for each MPPT (with DC switch)		25 .	A / 600 V	
Output Side				
AC grid connection type			gle-phase	
Rated AC power (Pacr@cosФ=1)	2000 W	3300 W	4000 W	5000 W
Max. AC output power (Pacmax @cosΦ=1)	2000 W	3300 W	4000 W	5000 W
Max. apparent power (Smax)	2000 VA	3300 VA	4000 VA	5000 VA
Rated AC grid voltage (Vac,r) / AC voltage range ⁽²⁾		230 V	/ 180264 V	
Max. AC output current (lac,max)	10.0 A	14.5 A	17.2 A	22.0 A
Contributory fault current	12.0 A	16.0 A	19.0 A	24.0 A
Rated output frequency (fr) ⁽³⁾	50 Hz			
Output frequency range (fminfmax) ⁽³⁾		47	753 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		r cindic con	nector from paner	
		Aggarding	to local standard	
Anti-islanding protection	1/0 4		to local standard	22.0 4
Max. external AC overcurrent protection	16.0 A	20.0 A	25.0 A	32.0 A
Output overvoltage protection - varistor		2 (L -	N / L - PE)	
Operating Performance				
Max efficiency (ŋmax) / Weighted Euro efficiency	96.7% / 95.0%	97.0% / 96.5%	97.0% / 96.5%	97.4% / 97.0%
Feed in power threshold / Night consumption		8 W	/ / <0.4 W	
Safety				
Isolation level	Transformerless			
Marking	CE , RCM			
Safety and EMC standard	EN 50178, IEC/EN 62109-1, IEC/EN 62109-2, AS/NZS 3100, EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-2, EN 61000-3-3 EN 61000-6-3, EN 61000-6-4, EN 61000-3-12			
Grid standard ⁽⁴⁾	CEI 0-21, DIN V VDF V 0126-1	-1, VDE-AR-N 4105, G83/2, G59/		ZS 4777.2, C10/11, IEC 61727, IEC 621
Environmental		, , , , , , , , , , , , , , , , , , , ,		, ,
Ambient temperature range		-25+60°C		-25+60°C
<u> </u>		with derating above 50°C	ing < 50 dB (A) @ 1	with derating above 45°C
Relative humidity Acoustic noise emission level	0100 % condensing I < 50 dB (A) @ 1 m			
Max. operating altitude without derating			2000 m	
Physical		Embedded (Communication and War	ranty
Environmental protection rating	IP 65	Interface (4)		Wireless
Cooling	Natural	Protocol		ModBus TCP (SunSpec)
Dimensions (H x W x D)	553 x 418 x 175 r	nm Commissioni	ng tool	Web UI
DIFFERSIONS (FEX W X D)			_	
	15 ka	Monitoring	Plai	nt Portfolio Manager and Plant Viewe
Weight Mounting system	15 kg Wall bracket	Monitoring Solahart War		nt Portfolio Manager and Plant Viewe 10 Years*



