# SOLAR POWER SYSTEMS



# **FIMER**

## SINGLE-PHASE INVERTERS

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





The new UNO-DM-PLUS single-phase inverter family, with power ratings from 3.3 to 5.0kW, is the optimal solution for residential installations.

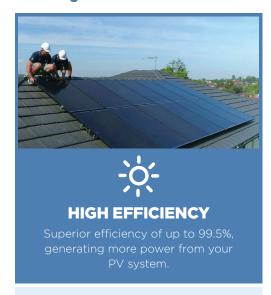
The new design wraps European quality and engineering into a lightweight and compact package that includes a streamlined physical design with a reduced component count.

The dual Maximum Power Point Trackers (MPPT) allow for installations with different orientations. With embedded wireless connectivity and smart grid capabilities, it provides homeowners with advanced monitoring, control, and ease of 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 homeowners.

#### ^Manufactured under trademark licence agreement by FIMER Group.

## How you benefit:





#### **FLEXIBLE DESIGN**

Individual panel monitoring and management allows flexible designs and increased power production.



#### **SAFE OPERATION**

Automatic panel-level voltage shutdown feature for installer and firefighter safety.



#### **INNOVATIVE**

Wireless communication with integrated web server.



### **SOLAHART WARRANTY**

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

# **TECHNICAL DATA**



	UNO-DM-3.3-TL-PLUS-Q	UNO-DM-4.0-TL-PLUS-Q	UNO-DM-4.6-TL-PLUS-Q	UNO-DM-5.0-TL-PLUS-Q
nput side				
Absolute maximum DC input voltage (V <sub>max,abs</sub> )	600 V			
Start-up DC input voltage V <sub>start</sub> )	200 V (adj. 120350 V)			
Operating DC input voltage ange (VdcminVdcmax)	0.7 x V <sub>start</sub> 580 V (min 90 V)			
Rated DC input voltage (V <sub>dcr</sub> )	360 V			
Rated DC input power (Pdcr)	3500 W	4250 W	4750 W	5150 W
Number of independent MPPT		:	2	
Maximum DC input power for each MPPT (PMPPTmax)	2000 W	3000 W	3000 W	3500 W
OC input voltage range with parallel configuration of MPPT at Pacr	170530 V	130530 V	150530 V	170480 V
DC power limitation with parallel configuration of MPPT	Linear derating from Max to Null [530V≤V <sub>MPPT≤</sub> 580V]	Linear derating from Max to Null [530V≤VMPPT≤580V]	Linear derating from Max to Null [530V≤V <sub>MPPT</sub> ≤580V]	Linear derating from Max to Null [480V≤VMPPT≤580V]
DC power limitation for each MPPT with independent configuration of MPPT at P <sub>acr</sub> , max unbalance example	2000 W [200 V≤VMPPT≤530 V] the other channel: Pdcr-2000 W [112 V≤VMPPT≤530 V	3000 W [190 V≤VMPPT≤530 V] the other channel: Pdcr-3000 W [90 V≤VMPPT≤530 V]	3000 W [190 V≤V <sub>MPPT≤</sub> 530 V] the other channel: Pdcr-3000 W [90 V≤V <sub>MPPT≤</sub> 530 V]	On MPPT 1: 3500 W [185 V≤VMPPT≤480 V] On MPPT 2: Pdcr-3500 W [145 V≤VMPPT≤480 V] or 3500 W (305 V≤VMPPT≤480 V with no power on MPPT1
mum DC input current (Idcmax)  for each MPPT (IMPPTMax)	20.0/10.0 A	32.0/16.0 A	32.0/16.0 A	30.5/19-11.5 A (MPPT 1 - MPPT 2)
Maximum input short circuit current for each MPPT	20.0 A	22.0 A	22.0 A	22.0 A
Number of DC input pairs for each MPPT	1			
OC connection type <sup>(1)</sup>		Quick Fit P	V Connector	
nput protection				
Reverse polarity protection	Yes, from limited current source			
nput over voltage protection	Yes			
or each MPPT-varistor 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 (Pacr @	3300 W	4000 W	4600 W	5000 W
cosφ=1) Maximum AC output power Pacmax @cosφ=1)	3300 W	4000 W <sup>(2)</sup>	4600 W	5000 W
Maximum apparent power Smax)	3300 VA	4000 VA <sup>(2)</sup>	4600 VA	5000 VA
Rated AC grid voltage (Vac,r)	230 V			
AC voltage range <sup>3)</sup>	180264 V			
Maximum AC output current	14.5 A	17.2 A	20.0 A	22.0 A
lac.max) Contributory fault current	16.0 A	19.0 A	22.0 A	24.0 A
Rated output frequency (fr)4)	10.0 A		50 Hz	24.0 A
Output frequency range fminfmax) <sup>4)</sup>	4753/5763 Hz			
Nominal power factor and adjustable range	> 0.995, adj. ± 0.1 - 1 (over/under excited)			
Total current harmonic	< 3%			
AC connection type		Female connec	ctor from panel	
Output protection				
Anti-islanding protection		According to	local standard	
Maximum external AC overcurrent protection	20.0 A	25.0 A	25.0 A	32.0 A

Specifications and designs included in this data sheet are subject to change without notice.