



DT Series
Dual-MPPT, Three-Phase

- Maximum Efficiency up to 98.5%
- European Efficiency up to 98.1%
- MPPT Efficiency up to 99.9%
- DC switch
- IP65 dust-proof and water-proof rating
- 45°C full-load output
- Super large 5-inch LCD
- 30% lighter than similar products
- Multiple monitoring and communication
- up to 80 pieces can be integrated in one system

Integrated WiFi Solution
multiple user access and mobile Apps

Model	TLW4000-DT	TLW5000-DT	TLW6000-DT
AC Output Data			
Norminal AC power(W)	4000	5000	6000
Max. AC power(W)	4000	5000	6000
Max. AC current(A)	7	8.5	10
AC overcurrent protection(A)	22	28	28
Norminal AC output	50/60Hz; 400Vac		
AC output range	45~55Hz/55~65Hz; 310~480Vac		
THDi	<1.5%		
Power factor	0.9 leading~0.9 lagging		
Grid connection	3W/N/PE		
AC overvoltage category	Category III		
Efficiency			
Max. efficiency	97.8%		
Euro efficiency	>96.7%		
MPPT adaptation efficiency	99.9%		
Protection			
Residual current monitoring unit	Integrated		
Anti-islanding protection	Integrated		
DC switch	Integrated(optional)		
AC over current protection	Integrated		
Insulation monitoring	Integrated		
Certifications&Standards			
Grid regulation	VDE-AR-N 4105, AS4777.2&3, IEC62109-2, VDE0126-1-1+A1, EN50438, G83/2		
Safety	IEC62109-1&-2, AS3100		
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3		
General Data			
Dimensions (WxHxD)	516*474*192mm		
Weight (kg)	24		
Mounting	Wall bracket		
Ambient temperature range	-25~60°C (>45°C derating)		
Relative humidity	0~95%		
Moisture location category	4K4H		
Max. operating altitude	2000m		
Protection degree	IP65		
Environment category	Outdoor & indoor		
External environment pollution degree	Grade1、2、3		
Topology	Transformerless		
Night power consumption(W)	<1		
Cooling	Natural Convection		
Noise emission(dB)	<30		
Display	5.0" LCD		
Communication	USB2.0; RS485 orWiFi		
Standard warranty(years)	5/10/15/20/25 optional		

Model	TLW4000L-DT	TLW5000L-DT	TLW6000L-DT
DC input Data			
* Max. DC power(W)	4200	5200	6200
Max. DC voltage (V)	600	600	600
MPPT voltage range (V)	200~550	200~550	200~550
Starting voltage (V)	180	180	180
Max. DC current (A)	11/11	11/11	11/11
Max. inverter backfeed current to the array (A)	0		
DC overcurrent protection(A)	21	21	21
No. of DC connectors	2	2	2
No. of MPPTs	2(can parallel)		
DC overvoltage category	CategoryII		
DC connector	MC4 / SUNCLIX (optional)		
AC Output Data			
Normal AC power(W)	4000	5000	6000
Max. AC power(W)	4000	5000	6000
Max. AC current(A)	7	8.5	10
AC overcurrent protection(A)	22	28	28
Normal AC output	50/60Hz; 400Vac		
AC output range	45~55Hz/55~65Hz; 310~480Vac		
THDi	<1.5%		
Power factor	0.9 leading~0.9 lagging		
Grid connection	3W/N/PE		
AC overvoltage category	CategoryIII		
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Max. efficiency	96.8%		
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MPPT adaptation efficiency	99.9%		
Protection			
Residual current monitoring unit	Integrated		
Anti-islanding protection	Integrated		
DC switch	Integrated (optional)		
AC over current protection	Integrated		
Insulation monitoring	Integrated		
Certifications&Standards			
Grid regulation	AS4777.2&.3, IEC62109-2		
Safety	IEC62109-1&-2, AS3100		
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3		
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