



Solenso

DATASHEET

Three-Phase DT Series

DT3.0/4.0/5.0/6.0/8.0/10/12/15/17/20/25



DT SERIES

3-PHASE INVERTERS

The DT Series inverter range is aimed at 3-phase domestic and small-scale commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The 3-phase DT Series inverter options range from 3kW to 25kW.



High Performance

Low start-up voltage, Wide voltage range, 98.6% maximum efficiency



Upgradeable

Fully optimised for upgrade to the solenso range of battery storage systems.



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.

ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform.



THE DT SERIES



For more about the Solenso range, visit:
www.solenso-global.com

TECHNICAL SPECIFICATIONS

MODEL	DT3.0	DT4.0	DT5.0	DT6.0	DT8.0	DT10	DT12	DT15	DT17	DT20	DT25
INPUT											
Max. Recommended DC power [W]	4500	6000	7500	9000	12000	15000	18000	22500	25500	30000	37500
Max. DC Voltage [V]	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Nominal DC Operating Voltage [V]	600	600	600	600	600	600	600	600	600	600	600
Max. Input Current (input A/input B) [A]	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	25/12.5	25/25	25/25	25/25
Max. Short Circuit Current (input A/input B) [A]	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	32.5/16.25	32.5/32.5	32.5/32.5	32.5/32.5
MPPT Voltage Range [Vdc]	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850
MPPT Voltage Range (full load) [Vdc]	160-850	180-850	210-850	250-850	330-850	410-850	490-850	410-850	350-850	410-850	510-850
Start-up Voltage [V]	180	180	180	180	180	180	180	180	180	180	180
No. of MPP Trackers	2	2	2	2	2	2	2	2	2	2	2
Strings per MPP Tracker	1+1	1+1	1+1	1+1	1+1	1+1	1+1	2+1	2+2	2+2	2+2
OUTPUT											
Nominal AC Power [W]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	25000
Max. Apparent AC Power [VA]	3300	4400	5500	6600	8800	11000	13200	16500	18700	22000	27500
Rated Grid Voltage (AC Voltage Range) [Vac]	3/N/PE, 230/400 (310-480)										
Rated Grid Frequency [Hz]	50/60, ±5										
Nominal AC Current [A]	4.3	5.8	7.2	8.7	11.6	14.5	17.4	21.7	24.6	29.0	36.2
Max. AC Current [A]	4.8	6.4	8.0	9.6	12.8	15.9	19.1	23.9	27.1	31.9	39.9
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)										
Total Harmonic Distortion (THDi, @rated output)	<3%										
EFFICIENCY											
MPPT Efficiency [%]	99.8										
Euro Efficiency [%]	97.8										
Max. Efficiency (@rated voltage) [%]	98.6										
PROTECTION											
DC Reverse-polarity Protection:	YES										
Anti-islanding Protection:	YES										
Insulation Monitoring:	YES										
Residual Current Monitoring:	YES										
AC Short Circuit Protection:	YES										
AC Output Over Current Protection:	YES										
AC Output Over Voltage Protection:	YES										
Surge Protection:	YES										
Temperature Protection:	YES										
Integrated DC Switch:	Optional										
AFCI Protection:	Optional										
STANDARD											
Safety	IEC62109-1/2										
EMC	IEC 61000-6-1/IEC 61000-6-2/IEC 61000-6-3/IEC61000-4-2/3/4/5/6/8										
Certification	AS4777.2-2015 / VDE-AR-N 4105 /VDE0126-1-1 /G98 / G99 / EN50549-1/ CEI 0-21 IEC62116 /IEC61727 /IEC61683										
GENERAL DATA											
Dimensions (WxHxD) [mm]	475*384*186										
NET Weight [kg]	20					24					
Cooling Concept	Convection					Forced Convection					
Degree of Protection (according to IEC60529)	IP65										
Topology	Transformerless										
Over Voltage Category	III (AC side), II (PV side)										
Noise [dB]	<30					<55					
Operating Temperature Range [°C]	-20..... +60°C (derating at +45°C)										
Storage Temperature Range [°C]	-40..... +70°C										
Altitude	3000										
Humidity	0-100% (no condensation)										
Self Consumption (night) [W]	<3W										
Monitoring Module (optional)	RS485, WIFI (optional) / GPRS (optional)										
Communication	Meter, DRM, USB update, E-stop										
Display	LCD screen, Touch Key, App, Website										