



Leading - edge Technology

- ▶ DC input voltage of up to 1000V
- ▶ Maximum efficiency of 98%
- ▶ Internal DC switch
- ▶ Transformerless
- ▶ Compact design
- ▶ Multi MPP controller
- ▶ MTL - String
- ▶ Bluetooth technology
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty program

Europe / Australia ENS

- ▶ Simple national setting of line supply monitoring(ENS)
- ▶ Easy country configuration
- ▶ Multi - language display
- ▶ Currently available for Germany, Austria, France, UK, Switzerland, Italy and Spain

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Datasheet

	Growatt 10000UE	Growatt 12000UE	Growatt 18000UE	Growatt 20000UE
Input Data				
Max. DC power	10200W	12250W	18400W	20400W
Max DC voltage	1000V	1000V	1000V	1000V
PV voltage range MPPT	400V-800V	400V-800V	400V-800V	400V-800V
Max input current(input A / input B)	15A / 15A	17A / 17A	22A / 22A	25A / 25A
Number of MPP trackers	2	2	2	2
Max number of parallel strings(input A / input B)	2/2	2/2	3/3	3/3
DC Connections	MC4(optional MC3)	MC4(optional MC3)	MC4(optional MC3)	MC4(optional MC3)
Output (AC)				
Nominal output power	10KW	12KW	18KW	20KW
Max. AC power	10KVA	12KVA	18KVA	20KVA
Max. output current (overload 110%)	14.4A	17.5A	26A	29A
Nominal AC voltage range	3/N/PE 230V/400V	3/N/PE 230V/400V	3/N/PE 230V/400V	3/N/PE 230V/400V
AC grid frequency range	50/60Hz - 6Hz/+5Hz	50/60Hz - 6Hz/+5Hz	50/60Hz - 6Hz/+5Hz	50/60Hz - 6Hz/+5Hz
Phase shift (cos φ) adjustable	0.8 leading -0.8lagging	0.8 leading -0.8lagging	0.8 leading -0.8lagging	0.8 leading -0.8lagging
Ac output THD	<3%(nominal power output)	<3%(nominal power output)	<3%(nominal power output)	<3%(nominal power output)
AC connection	Three phase	Three phase	Three phase	Three phase
Consumption(night)	<1W	<1W	<1W	<1W
Electronics string fuse	20A	25A	30A	40A
Ground failure detection	yes	yes	yes	yes
Efficiency				
Max. efficiency	98%	98%	98%	98%
Euro efficiency	97.5%	97.5%	97.5%	97.5%
General Data				
Dimensions (W / H / D) in mm	440/740/235	440/740/235	520/740/235	520/740/235
Weight	41KG	41KG	60KG	60KG
Isolation	transformerless	transformerless	transformerless	transformerless
Ambient operational range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Cooling concept	Fans	Fans	Fans	Fans
Installation indoors/ outdoors(IP 65)	yes / yes	yes / yes	yes / yes	yes / yes
Altitude	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating
Humidity	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation
Interfaces: Bluetooth /RS485/RS232	opt / yes / yes	opt / yes / yes	opt / yes / yes	opt / yes / yes
LCD display	YES (Alphanumeric 4 lines)	YES (Alphanumeric 4 lines)	YES (Alphanumeric 4 lines)	YES (Alphanumeric 4 lines)
Warranty:5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt
Certificates and Approvals				
EN61000-6-2 , EN61000-6-3 , VDE 0126-1-1, Dk5940 , CQC , RD 1663 , G59 , SAA				