

Growatt 10000UE / 12000UE / 18000UE / 20000UE

Leading - edge Technology

- ▶ DC input voltage 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 etc.



Datasheet

	Growatt 10000UE	Growatt 12000UE	Growatt 18000UE	Growatt 20000UE
Input Data				
Max. DC power	10500W	12500W	18700W	20800W
Max DC voltage	1000V	1000V	1000V	1000V
PV voltage range MPPT	400V-800V	400V-800V	400V-800V	400V-800V
Initial / shut-down voltage	300V / 150V	300V / 150V	300V / 150V	300V / 150V
Max input current(input A / input B)	15A / 15A	17A / 17A	23A / 23A	26A / 26A
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
Output (AC)				
Nominal output power	10KW	12KW	18KW	20KW
Max. apparent 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 -0.8laging	0.8 leading -0.8laging	0.8 leading -0.8laging	0.8 leading -0.8laging
Ac output THDI	<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)	<0.5W	<0.5W	<0.5W	<0.5W
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
Topology	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
Features				
DC connection: (H4 / Mc4)	yes / opt	yes / opt	yes / opt	yes / opt
LCD display	yes (Alphanumeric 4 lines)	yes (Alphanumeric 4 lines)	yes (Alphanumeric 4 lines)	yes (Alphanumeric 4 lines)
Interfaces: RS485/RS232/Bluetooth/RF/ZigBee	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt
Warranty:5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt
Certificates and Approvals				
VDE0126-1-1, IEC62109, RD 1663, G59, G83, EN61000-6-2, EN61000-6-3, AS4777, AS/NZS 3100, ENEL-Guide, VDE-AR-N4105, CEI 0-21				