



Leading - edge Technology

- ▶ DC input voltage of up to 10000V
- ▶ Maximum efficiency of 98%
- ▶ Internal DC switch
- ▶ Transformerless
- ▶ Compact design
- ▶ Multi MPP controller
- ▶ MTL - String
- ▶ Bluetooth / RF technology / ZigBee
- ▶ 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

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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
MPP voltage range	400V-800V	400V-800V	400V-800V	400V-800V
PV voltage range	300V-1000V	300V-1000V	300V-1000V	300V-1000V
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	16A	19A	28.6A	32A
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 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				