

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
- Noise 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, Australia, France, UK, Austria, Switzerland,Australia, Italy and Spain



Datasheet

	JCS-PI10.0UE	JCS-PI12.0UE	JCS-PI18.0UE	JCS-PI20.0UE
Input Data				
Max. DC power	10200W	12250W	18400W	20000W
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	23A / 23A	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	19.5KW
Max. AC power	10KVA	12KVA	18KVA	19.5KVA
Max. output current (overload 110%)	16A	19A	29A	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 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				
Weight	40KG	40KG	55KG	55KG
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 / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes
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				
	TUV,UL,AS	TUV,UL,AS	TUV,UL,AS	TUV,UL,AS