

Characteristics	PVI-CENTRAL-50	PVI-CENTRAL-100	PVI-CENTRAL-100-TL	PVI-CENTRAL-200	PVI-CENTRAL-200-TL	PVI-CENTRAL-300	PVI-CENTRAL-300-TL
Input Parameters							
Maximum recommended PV power (kWp)	57,50	115,00	115,00	230,00	230,00	345,00	345,00
Total (master slave mode)							
Per Channel (multi-master mode)							
Absolute maximum input voltage (Vdc)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)
MPPPT input voltage range Vdc	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)	460 - 850 (550 nominal)
Maximum input current (A _{dc})							
Master-slave mode	123,00	246,00	246,00	490,00	490,00	740,00	740,00
Multi-master mode (per module)							
Input Reflected Ripple voltage	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Number of DC inputs available (multi-master configuration)	1	2	2	4	4	6	6
Input overvoltage protections	1	2 (1 for each input)	2 (1 for each input)	4 (1 for each input)	4 (1 for each input)	6 (1 for each input)	6 (1 for each input)
Output Parameters							
Nominal AC Output Power (KW)	55,00	110,00	110,00	220,00	220,00	330,00	330,00
Nominal AC Output Current (Arms)	78,00	160,00	220,00	320,00	440,00	660,00	960,00
AC Output Voltage range (Vrms)	3 x 400 +/-10%	3 x 400 +/-10%	3 x 300 +/-10%	3 x 400 +/-10%	3 x 300 +/-10%	3 x 400 +/-10%	3 x 300 +/-10%
Nominal AC Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Power Factor (cos φ)	1 (@ Pac nominal)	1 (@ Pac nominal)	1 (@ Pac nominal)	1 (@ Pac nominal)	1 (@ Pac nominal)	1 (@ Pac nominal)	1 (@ Pac nominal)
AC Current Harmonics (THD%)	< 3% (@ Pac nominal)	< 3% (@ Pac nominal)	< 3% (@ Pac nominal)	< 3% (@ Pac nominal)	< 3% (@ Pac nominal)	< 3% (@ Pac nominal)	< 3% (@ Pac nominal)
Inverter Switching Frequency (KHz)	18	18	18	18	18	18	18
AC side overvoltage protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Conversion Efficiency							
Peak Efficiency % (@ Vin nom)	95,70%	95,70%	97,50%	95,70%	97,50%	96,20%	98,00%
Euro Efficiency % (@ Vin nom)	94,90%	94,90%	96,90%	94,90%	96,90%	95,40%	97,40%
Environmental Parameters							
Environmental Protection Degree	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Operating Temperature Range	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C	-10°C...+50°C
Relative Humidity (non-condensing)	< 95%	< 95%	< 95%	< 95%	< 95%	< 95%	< 95%
General Data							
Consumption (W)	0.2% of PACnom	0.2% of PACnom	0.2% of PACnom	0.2% of PACnom	0.2% of PACnom	0.2% of PACnom	0.2% of PACnom
Night time losses (W)	<40W	<40W	<40W	<40W	<40W	<40W	<40W
Local Communication	1x RS485 + 1x RS485 (dedicated to String combiner-Box)	1x RS485 + 1x RS485 (dedicated to String combiner-Box)	1x RS485 + 1x RS485 (dedicated to String combiner-Box)	1x RS485 + 1x RS485 (dedicated to String combiner-Box)	1x RS485 + 1x RS485 (dedicated to String combiner-Box)	1x RS485 + 1x RS485 (dedicated to String combiner-Box)	1x RS485 + 1x RS485 (dedicated to String combiner-Box)
Remote Communication (optional)	Aurora Easy Control (Dial-Up, ISDN, Ethernet, DSL, GSM)	Aurora Easy Control (Dial-Up, ISDN, Ethernet, DSL, GSM)	Aurora Easy Control (Dial-Up, ISDN, Ethernet, DSL, GSM)	Aurora Easy Control (Dial-Up, ISDN, Ethernet, DSL, GSM)	Aurora Easy Control (Dial-Up, ISDN, Ethernet, DSL, GSM)	Aurora Easy Control (Dial-Up, ISDN, Ethernet, DSL, GSM)	Aurora Easy Control (Dial-Up, ISDN, Ethernet, DSL, GSM)
User Interface	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)	2-lines Display (on each inverter module)
Dimensions (WxHxD) (mm)	1250 x 1570 x 810	1250x1570x810	1250 x 1150 x 810	1250 x 2100 x 810	1250 x 1570 x 810	1250 x 2100 x 810 + 1250 x 1100 x 810	1250 x 2100 x 810
Overall Weight (Kg)	800	900	480	1200	780	1700	1100
50kW module Weight (kg)	65	65	65	65	65	65	65
Approvals							
EMC	EN61000-6-2, EN61000-6-4	EN61000-6-2, EN61000-6-4	EN61000-6-2, EN61000-6-4	EN61000-6-2, EN61000-6-4	EN61000-6-2, EN61000-6-4	EN61000-6-2, EN61000-6-4	EN61000-6-2, EN61000-6-4
CE Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Grid connection (pending)	DK5940 Ed. 2.2, VDEW, UL1741, Real Decreto RD1663/2000	DK5940 Ed. 2.2, VDEW, UL1741, Real Decreto RD1663/2000	DK5740*, VDEW, UL1741, Real Decreto RD1663/2000	DK5940 Ed. 2.2, VDEW, UL1741, Real Decreto RD1663/2000	DK5740*, VDEW, UL1741, Real Decreto RD1663/2000	DK5940 Ed. 2.1, VDEW, UL1741, Real Decreto RD1663/2000	DK5740*, VDEW, UL1741, Real Decreto RD1663/2000

* restrictions apply to external medium voltage transformer and grid interface