

PVOne

PV33.1060.C000.R0.2

- Basic unit for central inverters in the middle and high power range
- Contains all necessary power and control electronics
- Extensive software functions and control algorithms
- Comprehensive control and monitoring functions



Technical data

Designation	PV33.1060.C000.R0.2
Generator connection (DC)	
Min./max. input voltage ($V_{dc, min} / V_{dc, max}$)	500 V / 1000 V
MPP voltage range ($V_{mpp, min} \dots V_{mpp, max}$)	500 V ... 920 V
Max. input current ($I_{dc, max}$)	600 A
Termination technique flat terminal (DC+, DC-)	M12 / 55 Nm
Mains power connection (AC)	
Output voltage range (V_{ac})	290 V ... 400 V
Rated frequency (f_r)	50 Hz / 60 Hz
Max. output current ($I_{ac, max}$)	520 A
System form	IT (3-)
Power factor $\cos \varphi$	Adjustable 0.8 ind. to 0.8 cap.
Termination technique flat terminal (L1.x, L2.x, L3.x)	M12 / 55 Nm
Protective earth terminal (PE)	M8 / 20...25 Nm
Control supply	
Supply voltage	24 V -10 % +15 %
Max. start-up current	20 A
Max. continuous current	3.5 A
Dimensions	
Height	838 mm
Width	523 mm
Depth	249 mm
Weight (approx.)	61 kg
General data	
Environment	Installation in a electrical control cabinet
Ambient temperature	-10 °C to +55 °C ¹⁾
Relative humidity	15 % to 85 %, condensation not permitted
Installation altitude	3000 m ²⁾
Pollution severity (EN 60664-1)	2
Cooling method	Regulated air/liquid cooling
Fresh air requirement	250 m ³ /h
Liquid cooling	
Max. coolant input temperature	60 °C
Connection	3/8 Zoll, inside thread
Max. pressure loss on heat sink	300 mbar
Max. coolant pressure	4 bar
Min. coolant flow rate	8 l/min
Coolant	Water-glycol mixture
Safety	
Protection class (IEC 62103)	1
Protection type (IEC 60529)	IP 10
Standards	
General	<ul style="list-style-type: none"> - CE conformity - DIN EN 62109-1: Safety of power converters for use in photovoltaic power systems - DIN EN 62477-1: Safety requirements for power electronic converter systems and equipment

1) Possible derating at higher ambient temperatures

2) Without derating