



### CHARACTERISTICS



Easy installation



Reliable



Easy to use

### MEASURES



Entrance photovoltaic	Max power of the photovoltaic array	30000Wp STC
	Maximum input voltage	1100V
	MPP voltage range/rated input voltage	150V a 1000V/630V
	Minimum input voltage	125V
	start voltage	180V
	Maximum Input Current per MPPT	32A / 32A
	Maximum short circuit current per MPPT	48A / 48A
	Number of independent MPPT trackers /strings per MPPT input	2 / A:2;B:2
AC output	Rated active power	20000 W
	Rated apparent power	20000 VA
	Maximum apparent power	22000 VA <sup>3</sup> y <sup>4</sup>
	AC rated voltage	220V/380V 230V/400V 240V/415V
	AC voltage range	160V A 300V
	AC Grid Frequency / Range	50 Hz / 45 Hz a 55 Hz 60 Hz / 55 Hz a 65 Hz
	Maximum output current of the network	31.9 A
	Adjustable power factor range	0.8 ahead - 0,8 behind
	Feeding phases	3 / 3 - N - PE
	THDi harmonics (at rated power)	< 3 %
Efficiency and protection of security	Maximum efficiency/European efficiency	98.6 % / 98,2 %
	DC side disconnect device	●
	Ground Fault Monitoring/ Grid Monitoring	● / ●
	DC reverse polarity protection/ AC short circuit protection	● / ●
	Omnipolar residual current monitoring unit	●
	Anti-island protection	●
	AC surge protection	● / Type II
	Protection class (according to IEC 62109-1)/ overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II
General data	Dimensions (width/height/length)	503 / 435 / 183 mm
	Device Weight	18.6 kg
	Operating temperature range	-25 °C ... +60 °C
	Topology	Without transformer
	Night use	< 1 W
	Cooling concept	Active cooling
	Protection degree (according to IEC 60529)	IP66
	Climatic category (according to IEC 60721-3-4)	4K4H
	"Maximum permissible value of relative humidity (no condensation)"	100%
	Maximum operating altitude	3000 m
Features	DC connection	Plug connector
	AC connection	Plug connector
	Mounting type	Wall mount
	LED indicators (status/error/communication)	●
	Communication interface <sup>1</sup> v <sup>2</sup>	● / ● / ○ / ○ (RS485 / Wifi / LAN / 4G)
	Country of manufacture	China
	Certificates and authorizations (others upon request)	CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11

● Standard Features / ○ optional features / - not available

1. Zero export facilities compatible with 2-pin RS485 for connection to approved smart meters.
2. DRED supports RS485 communication for Australia and New Zealand.
3. The overload setting is disabled by default for AS/NZS4777 network codes.
4. For European grid codes and AS/NZS4777, the maximum apparent power in AC is equal to the rated power.  
Data in nominal conditions.  
All information is subject to change.