

TECHNICAL DATA

TAURUS RES ENTERPRISE



MODEL	Taurus RES Enterprise 5 KW (single phase)	Taurus RES Enterprise 10 KW (three phase)
Rated power	5000 W	10000 W
Maximum charging power	4800 W	9600 W
<b>PV INPUT (DC)</b>		
Maximum DC input power	10000 W	14850 W
Nominal DC voltage	720 VDC	720 VDC
Maximum DC voltage	900 VDC	900 VDC
Start-up voltage / initial feeding voltage	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP voltage range	250 VDC ~ 850 VDC	350 VDC ~ 850 VDC
Number of MPP trackers	2	2
Maximum input current	2 x 10.0 A	2 x 18.6 A
Isc PV (absolute maximum)	2 x 15 A	2 x 25 A
PV circuit protection	2 x 2 pole 1000 volt 15 Amp	2 x 2 pole 1000 volt 25 Amp
PV circuit surge protection (optional)	2 x PRD40r 1000DC	2 x PRD40r 1000DC
Max. inverter backfeed current to the array	0 Amp	0 Amp
<b>GRID AND LOAD OUTPUT (AC)</b>		
Nominal output voltage	208/220/230/240 VAC	230 VAC (L to N) / 400 VAC (L to L)
Output voltage range	184 - 265 VAC	184 - 265 VAC per phase
Output frequency range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Nominal output current	21 A*	15 A per phase
Inrush current	60 A	17 A per phase / 20ms
Maximum output fault current	80 A	51 A per phase / 1ms
Maximum output overcurrent protection	80 A	51 A per phase
Power factor range	0.9 lead - 0.9 lag	0.9 lead - 0.9 lag
Load circuit protection	2 pole 240 volt 32 Amp (circuit breaker)	4 pole 400 volt 50 Amp (circuit breaker)
<b>AC INPUT</b>		
AC start-up voltage	120-140 VAC	120-140 VAC per phase
Auto restart voltage	180 VAC	180 VAC per phase
Acceptable input voltage range	170 - 280 VAC	171 - 280 VAC per phase
Nominal frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
AC input power	4800VA/5100W	10000VA / 10000W
Maximum AC input current	40 A	40 A
Inrush input current	40 A / 1ms	40 A / 1ms
Grid circuit protection	2 pole 240 volt 60 Amp (isolator)	4 pole 400 volt 60 Amp (isolator)
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal output voltage	208/220/230/240 VAC	230 VAC (L to N) / 400 VAC (L to L)
Output frequency	50 Hz / 60 Hz (auto sensing)	50 Hz / 60 Hz (auto sensing)
Output waveform	Pure sine wave	Pure sine wave
Output power	4800VA / 5100W	10000VA / 10000W
Output current	23 A	25 A per phase
Efficiency (DC to AC)	92%	91%
<b>BATTERY &amp; CHARGER</b>		
Nominal DC voltage	40 to 60 VDC	40 to 60 VDC
Maximum battery discharging current	200 A	275 A
Maximum charging current	100 A	200 A
<b>BATTERY CAPACITY</b>		
Battery capacity in Ah (100% DOD)	* 200 Ah (Lead Crystal®)	* 200 Ah / 300 Ah (Lead Crystal®)
Battery capacity in kWh (100% DOD)	9.6 kWh	9.6 kWh / 14.4 kWh
Battery DC circuit protection	pole 60 volt 200 Amp (isolator)	2 pole 60 volt 300 Amp (isolator)
<b>GENERAL CHARACTERISTICS</b>		
Dimensions H x W x D (mm)	1550 x 650 x 650 mm	1550 x 650 x 650 mm
Net weight (kg)	345 kg	375 / 480 kg
Chasis construction material	Laser cut galvanized steel	Laser cut galvanized steel
Enclosure construction material	UL94 V0 thermo molded ABS	UL94 V0 thermo molded ABS
<b>INTERFACE</b>		
Communication port	RS-232/USB (wifi optional)	RS-232/USB (wifi optional)
Intelligent slot	Optional SNMP, Modbus and AS-400 cards available	Optional SNMP, Modbus and AS-400 cards available
<b>ENVIRONMENT</b>		
Protective class	I	I
Ingress protection rating	IP55	IP55
Cooling	Internal electrical fan	Internal electrical fan
Humidity	0 ~ 90% RH (non condensing)	0 ~ 90% RH (non condensing)
Operating temperature	neg 10°C to plus 55°C	neg 10°C to plus 55°C
Altitude	1 ~ 2000 m**	1 ~ 2000 m**

\* Up to three Towers can be connected with total of 28.8 kWh / 43.2 kWh for 1 Hybrid Wall.