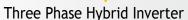




Technical specification





| Model | Opal-6K-3P-EU | Opal-8K-3P-EU | Opal-10K-3P-EU | Opal-12K-3P-EU |
|---------------------------------------------|-----------------------------------------------------------------|-------------------|-------------------|-----------------|
| PV Input DC Rating | | | | |
| No of MPPT for solar input | 2/1 + 1 | | 2/2 + 1 | |
| Max DC input Power (Wp) | 7,800Wp | 10,400Wp | 13,000Wp | 15,600Wp |
| Rated PV Input Voltage (V) | | 550V (15 | 0V to 800V) | |
| PV MPPT voltage range (V) | 200V to 650V | | | |
| Start-up DC Voltage (V) | 150 | | | |
| PV Input Current per MPPT (A) | 13A + 13A 26A + 13A | | | |
| Battery Voltage range (V) | | 40V | to 60V | |
| DC Max. Charging/ Discharging (A) | 150A | 190A | 210A | 240A |
| AC Rating | 1 | | | |
| Rated AC Output and UPS power | 6,000W | 8,000W | 10,000W | 12,000W |
| Max. Output AC Output power | 6,600W | 8,800W | 11,000W | 13,200W |
| Off-Grid Peak AC Power | 12,000W for 10s | 16,000W for 10s | 20,000W for 10s | 24,000W for 10s |
| AC Output rated Current | 9.1A | 12.1A | 15.2A | 18.2A |
| Max. AC Current | 13.6A | 18.2A | 22.7A | 27.3A |
| Max. Continuous AC pass-through | 45.0A | | | |
| Output Voltage frequency | 3L/N/PE 220/380Vac 230/400Vac, three phase 50/60Hz | | | |
| Current harmonic Distortion | THD<3% (Linear Load <1.5%) | | | |
| Power Factor | 0.8 leading to 0.8 lagging | | | |
| Efficiency | | | | |
| Max Efficiency | 97.60% | | | |
| Euro Efficiency | 97.00% | | | |
| MPPT Efficiency | 99.90% | | | |
| Protections | | | | |
| PV input lightning Protection | Integrated | | | |
| Anti-Islanding protection | Integrated | | | |
| PV String Input Reverse Polarity Protection | Integrated | | | |
| Insulation Resistor Detection | Integrated | | | |
| Residual Current monitoring Unit | Integrated | | | |
| Output Over Current Protection | Integrated | | | |
| Output Short Circuit Protection | Integrated | | | |
| Output Over Voltage Protection | Integrated | | | |
| Surge Protection | DC Type II/ AC Type II | | | |
| UPS Transfer Time | 4mSec | | | |
| Certifications and Standards | | | | |
| Grid Regulation | CEI 0-21, UNE217002, IEC61727, IEC62116, VDE 4105, VDE 0126-1-1 | | | |
| Safety standard/ EMC | | IEC62109-1/-2, II | EC61000-6-1/2/3/4 | |
| General | | | | |
| Operating Temperature Range °C | -45 to 60°C, >45°C derating | | | |
| Cooling | SMART COOLING | | | |
| Elevation | <3000 M | | | |
| Noise (DB) | <45 DB | | | |
| Humidity | 5% to 95% (Non-Condensing) | | | |
| Communication with BMS | RS485/CAN | | | |
| Protection Degree | IP65 | | | |
| Inverter Weight (Kg) | 33.6 Kg | | | |
| Inverter Dimension (mm) | 422W x 699.3H x 279D mm (Wall mounted) | | | |
| Warranty | 5 years (Standard) + 5 years (Optional) | | | |