

| Datasheet | HYD 3000-EP | HYD 3680-EP | HYD 4000-EP | HYD 4600-EP | HYD * 5000-EP (Australia) | HYD 5500-EP | HYD 6000-EP |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|---------------------------|-------------|-------------|
| Battery Parameters | | | | | | | |
| Battery type | Lithium-ion, Lead-acid | | | | | | |
| Nominal battery voltage | 48V | | | | | | |
| Battery voltage range | 42-58V | | | | | | |
| Battery capacity | 50-2000Ah | | | | | | |
| Maximum charging / Discharging power | 3750W | 4000W | 4250W | 5000W | 5000W | 5000W | 5000W |
| Maximum charging current | 75A | 80A | 85A | 100A | 100A | 100A | 100A |
| Maximum discharging current | 75A | 80A | 85A | 100A | 100A | 100A | 100A |
| Charging curve(Lithium-ion) | BMS | | | | | | |
| Charging curve(Lead-acid) | 3-Stage adaptive with maintenance | | | | | | |
| Depth of discharge | Lithium-ion: 0-90% DOD adjustable, Lead-acid:0-50% DOD adjustable | | | | | | |
| Input DC (PV side) | | | | | | | |
| Recommended Max. PV input power | 4500Wp | 5400Wp | 6000Wp | 6900Wp | 7500Wp | 7500Wp | 9000Wp |
| Max DC power for single MPPT | 3500W | | | | | | |
| Max. input voltage | 600V | | | | | | |
| Start-up voltage | 100V | | | | | | |
| Rated input voltage | 360V | | | | | | |
| MPPT operating voltage range | 90-580V | | | | | | |
| Full power MPPT voltage range | 160V-520V | 180V-520V | 200V-520V | 230V-520V | 250V-520V | 250V-520V | 300V-520V |
| Number of MPP trackers | 2 | | | | | | |
| Max. input current per MPPT | 13A/13A | | | | | | |
| Max. input short circuit current per MPPT | 18A/18A | | | | | | |
| Output / Input AC (Grid side) | | | | | | | |
| Nominal AC power | 3000W | 3680W | 4000W | 4600W | 5000W | 5000W | 6000W |
| Max. AC power output to utility grid | 3300VA | 3680VA | 4400VA | 4600VA | 5000VA | 5500VA | 6000VA |
| Max. AC power from utility grid | 6000VA | 7360VA | 8000VA | 9200VA | 10000VA | 10000VA | 12000VA |
| Max. AC current output to utility grid | 15A | 16A | 20A | 20.9A | 21.7A | 25A | 27.3A |
| Max. AC current from utility grid | 27.3A | 32A | 36.4A | 41.8A | 43.4A | 43.4A | 54.6A |
| Nominal grid voltage | L/N/PE, 220V, 230V, 240V | | | | | | |
| Grid voltage range | 180Vac-276Vac (According to local standard) | | | | | | |
| Nominal frequency | 50Hz / 60Hz | | | | | | |
| Output THDi (@Nominal output) | < 3% | | | | | | |
| Power factor | 1 default (+/-0.8 adjustable) | | | | | | |
| Output AC (Emergency Power Supply) | | | | | | | |
| Max. apparent power | 3000VA | 3680VA | 4000VA | 4600VA | 5000VA | 5000VA | 5000VA |
| Peak output power,Duration | 3600VA, 60s | 4400VA, 60s | 4800VA, 60s | 5520VA, 60s | 6000VA, 60s | 6000VA, 60s | 6000VA, 60s |
| Max. output current | 13.6A | 16A | 18.2A | 20.9A | 22.7A | 22.7A | 22.7A |
| Nominal voltage, Frequency | 220V/230V, 50/60Hz | | | | | | |
| THDv (@Liner load) | < 3% | | | | | | |
| Switch time | 10ms default | | | | | | |
| Efficiency | | | | | | | |
| MPPT efficiency | 99.9% | | | | | | |
| Max efficiency of solar inverter | 97.6% | 97.6% | 97.6% | 97.8% | 97.8% | 97.8% | 98.0% |
| European efficiency of solar inverter | 97.2% | 97.2% | 97.2% | 97.3% | 97.3% | 97.3% | 97.5% |
| Max. charging efficiency of battery | 94.6% | | | | | | |
| Max. discharging efficiency of battery | 94.6% | | | | | | |
| Protection | | | | | | | |
| PV reverse polarity protection | Yes | | | | | | |
| PV insulation detection | Yes | | | | | | |
| Ground fault monitoring | Yes | | | | | | |
| Over current protection | Yes | | | | | | |
| Over voltage protection | Yes | | | | | | |
| DC switch | Yes | | | | | | |
| Firm frequency response function | Optional | | | | | | |
| SPD protection | MOV; Type III standard | | | | | | |
| General Data | | | | | | | |
| Ambient temperature range | -30°C~ +60°C (Above 45°C Derating) | | | | | | |
| Standby self-consumption | < 10W | | | | | | |
| Topology | High frequency insulation (for bat) | | | | | | |
| Degree of protection | IP65 | | | | | | |
| Allowable relative humidity range | 0~100% | | | | | | |
| Communication | RS485, Wifi/Ethernet/GPRS, CAN2.0 | | | | | | |
| Protective class | Class I | | | | | | |
| Max. operating altitude | 4000m | | | | | | |
| Current sensor connection | External | | | | | | |
| Noise | < 25dB | | | | | | |
| Weight | 21.5kg | | | | | | |
| Cooling | Natural | | | | | | |
| Dimension | 482*503*183mm | | | | | | |
| Display | LCD & APP + Bluetooth | | | | | | |
| Warranty | 5 Years or more | | | | | | |
| Standard | | | | | | | |
| EMC | EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12 | | | | | | |
| Safety standards | IEC62109-1/2, IEC62040-1, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30) | | | | | | |
| Grid standards | AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, G83/G59/G98/G99, UTE C 15-712-1, UNE 206 007-1 | | | | | | |

The models marked with "*" should be available only for some designated countries.