



AVO PRIMAX

20KVA-30 KVA (3 Phase Input/3 Phase Output)

FEATURES & PERFORMANCE

- ✓ Double Conversion On-Line UPS
- ✓ IGBT PWM Converter
- ✓ Battery Health Monitoring System
- ✓ Advance DSP Controlled UPS
- ✓ Compliance to International Standards
- ✓ 7 inch touch LCD with IoT functions.
- ✓ Advance Communication Facility RS 232, SNMP, Modbus, RS 485.
- ✓ Inbuilt Galvanic Isolation Transformer
- ✓ Output PF 0.8|0.9|1.0
- ✓ Input PF -0.99
- ✓ 50Hz/60Hz Frequency Conversion Mode

IDEAL APPLICATION

- Mission critical application & System
- POS-RETAIL
- Bank branches - ATM
- IT equipment (Work Station)
- Security and Surveillance System
- Servers/Networking/Storage
- Industrial Automation Control
- Health Care equipments
- Telecom/Railway Signaling
- Education (Smart schools) and **Many more**

BENIFITS

Easy deployment & maintainance with compact design :

- A compact, high-density UPS that is easy to install, configure, use, start up and service
- Inbulit input / bypass input / output / maintainance bypass breakers for completed distribution panel
- Aesthetic design blends well into your installation enviroment & offers a unique blend of energy, space and installation savings

Robust and competitive

- Minimize your power losses and cooling requirements with upto unity power factor (KW=KVA)
- Efficiency $\geq 94\%$ with full load.
- Noise level less than 58 dB.

SPECIFICATIONS

Model		TTRL12020	TTRL12030
Rate Power		20kVA	30kVA
Main input	Input	3P5W (3P+N+PE)	
	Rate Voltage	380/400/415VAC(I-L); 220/230/240VAC(I-N)	
	Rate Freq.	50/60Hz	
	Input PF	>0.99	
	Current distortion	THDi ≤2% (100% linear load) (measure with our Pure Power supply)	
	Voltage range	304 - 478VAC(L-L)full load; 304 - 228VAC (L-L) power derate from 100% to 75%	
	Freq. range	40-70Hz	
Battery	Rate voltage	±210VDC	
	Model	UPS with internal batteries,12VDC/7~9Ah	
		UPS for external batteries,Settable	
	Internal BAT	120PCS	
	Quantity	Depend on external battery, 10PCS	
	External BAT		
	Charging capacity	20%*Pout	
Dypass	Charging accuracy	±1%	
	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)	
	Voltage range	Range: -40%~ +25% , Settable, default -20% ~ +15%	
Inverter	Frequency range	50/60Hz, Settable: ±1Hz, ±3Hz, ±5Hz	
	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)	
	Rate Freq	50/60Hz	
	Output PF	1	
	Voltage accuracy	+1.0%	
	Load response	<5% (20% - 80% 20% step load)	
	Recovery time	< 20ms (0% - 100%-0% step load)	
	Output THDu	<1% (linear load) , <5% (non-linear load according to IEC 62040-3)	
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; > 150%,15 sec	
	Frequency accuracy	0.1%	
	Synchronize window	Settable, ±0.5Hz~±5Hz, default ±3Hz	
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S	
	Crost factor	3:1	
	Phase Accuracy	120°±0.5°	
	Efficiency	Normal Mode up to 96%; Battery Mode up to 96%	
	Display	LED + 7 inch touch LCD	
System	Certification- Safety	IEC62040-1, IEC60950-1	
	Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)	
	IP degree	IP20	
	Configuration	USB, RS232, RS485, Dry contact, Air filter	
	Option	SNMP card, AS400 card, Parallel kit, LBS, Cold start	
	Environment	0-40°C (operation) ; 25°C~70°C (storage) ; 0-95% (Humidity, non condensing)	
	Dimension (W*D*H) mm	500*864*922	
Weight(kg)	Internal BAT	250*530*650	
	External BAT	143	
	Internal BAT (No include batteries)	43	
	External BAT		

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