Online 1Ph

OPTIMA-T09 1K/1.5K/2K/3K

True Online Double Conversion UPS with IGBT in Rectifier and Inverter stages. Inproved Output Power Factor (0.9) and high power efficiency. With a robust design, offers avant-garde features. UPS and AC Line parameters can be supervised either from a modern LCD or remotelly by any of our communication opcions.

Now with more Real Power!
Output PF (VA/W)= 0.9



True ON-LINE Double Conversion and IGBT Technology
Our True ON-LINE Double Conversion Technology and IGBT (both in rectifier and Inverter stages) allows our UPS to generate full time, noiseless, impeccable, and pure sine wave power for your equipment.

Communication Ports & Control Software
This UPS is equipped qith several communications options:
- USB Port
- RS232 Port
- Smart port to install Network Communication Card (SNMP), Dry Contact Card (AS400), RS-485 Communication Card, etc.

Automatic Bypass:
Includes a smart and automatic bypass which activates when the UPS fails to keep your valuable electronic equipment working. Smart bypass also activates when the UPS is overloaded.

Emergency Power Off (EPO)
Our EPO port can be connected to an Emergency Stop Switch to turn off the output when activated, for safety reasons.

Frequency Converter Function
Output frequency of the UPS can be configured to 50Hz or 60Hz, regardless the input frequency, as long as it stays in the acceptable range.

Shortcircuit protected
This system avoids internal electronic damages triggering automatically when a shortcircuit is detected on its output. Outlets are turned off and an error message is shown on LCD.

Programmable Outputs:
This UPS family offers 2 kind of power outlets: Standard and Programmable. During Battery Mode Programmable outputs can be configured to power off at a given time (previously configured), without causing severe battery discharge.

Cold Start
This UPS series can be turned on even during power outage.

Auto-Recovery
Auto-Recovery function restarts the UPS automatically when AC Line comes back.

Power Generators Compatible
Only True On-Line Double conversion UPS can filter voltage fluctuation and other particularities generated by Power Generators to generate a clean, perfect, and pure sine wave power to feed your installation.

External Batteries Compatible
This UPS series includes connection for External Battery Packs to extend regular back up for as long as your equipment requires.

Eco-Mode Operation, for power saving
ECO-Mode is a power saving function which reduces power consumption over 5%. In this mode the load is powered directly by AC Line as long as it keeps between pre-configured limits. Otherwise, the UPS goes to regular ONLINE mode. During power outage, the UPS goes into Battery Mode to keep your equipment working perfectly safe.

Applications: Medium-Sized Businesses
Critical Servers, Workstations, Multiple PCs.



Technical Features

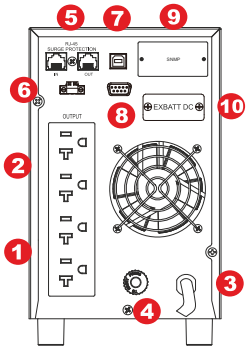
1. Standard Power Outlets
2. Programmable Power Outlets
3. AC Input
4. Circuit Breaker
5. Protected RJ45 Connector
6. Emergency Power Off (EPO)
7. USB Port
8. RS-232 Port
9. SNMP Smart Port
10. External Battery Connector
11. DC Circuit Breaker
12. Output Terminal Block (3K-120V)

Available Accesories:

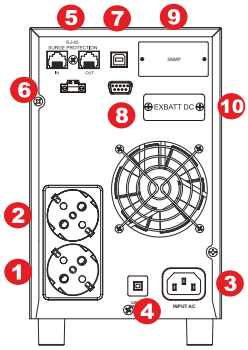
LAN Card: ✓
AS-400: ✓
RS-485: ✓
DC Connector: ⓘ
Environmental Sensors: ✓

ⓘ : *Included*
✓ : *Available Option*
◯ : *Non-Available*

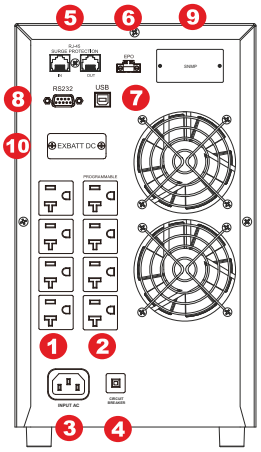
Rear Panel



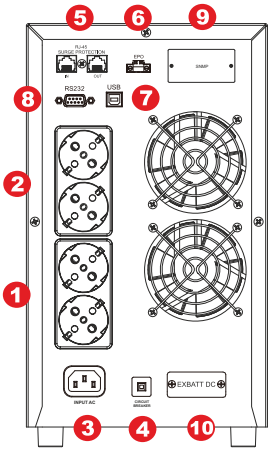
1K / 1.5K (120V)



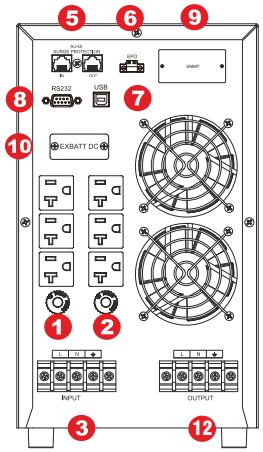
1K / 1.5K (220V)



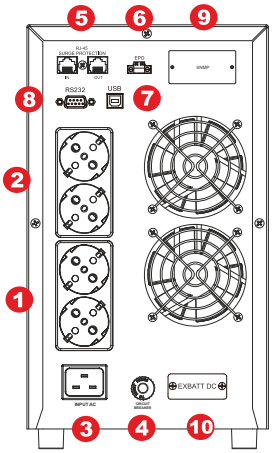
2K (120V)



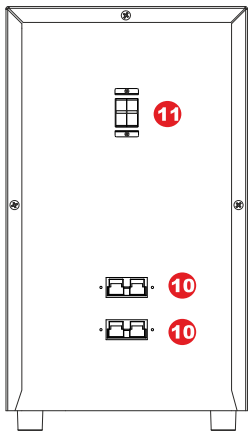
2K (220V)



3K (120V)



3K (220V)



External Batteries (XBAT)

Other brands and logos are property of their respective owners. Certifications may apply according to destination country and product model.

Applications: Medium-Sized Businesses, Critical Servers, Workstations, Multiple Pcs.

Xmart by Integra

Technical Features / Características Técnicas

OPTIMA T09	1K	1.5K	2K	3K
Capacity / Capacidad (VA)	1000VA	1500VA	2000VA	3000VA
Capacity / Capacidad (W)	900W	1350W	1800W	2700W
INPUT / ENTRADA				
Range / Rango - 120V				
Range / Rango - 220V				
Freq. Range / Rango Frecuencia	40 Hz - 70Hz			
Max. Current / Corriente Max. (Model 120Vac)	13.8A (RMS)	20.6A (RMS)	27.5A (RMS)	41.3A (RMS)
Max. Current / Corriente Max. (Model 220Vac)	6.9A (RMS)	10.3A (RMS)	13.8A (RMS)	20.6A (RMS)
Phase / Fases	Single phase with ground / 1 fase + Tierra			
Power Factor / Factor de Potencia				
Input THDi / THDi de Entrada				
Slew Rate / Segumiento Frecuencia	1 Hz / s			
OUTPUT / SALIDA				
Voltage Output / Voltaje de Salida AC	(*N1) Model 120V: 100/110/115/120/127Vac - Model 220V: 200/208/220/230/240Vac			
Output Regulation / Regulación de Salida	+/- 1%			
Frequency / Frecuencia (Batt. Mode)	50 Hz +/- 0.1 Hz - 60Hz +/- 0.1 Hz			
Current Crest Ratio / Factor de Cresta				
Harmonic Distortion / Dist. Armónica (THDv)				
Dynamic Accuracy / Regulación Carga Variable	< +/- 5% Online (variation 0%-100% & 100%-0% R Load)			
AC to Inverter / Tiempo AC a Inversor	0 ms			
Waveform / Forma de Onda	Pure Sinewave / Sinusoidal Pura			
Freq. Conversion / Conversión Frec.	Y	Y	Y	Y
EPO /Apagado Emergencia	Y	Y	Y	Y
Progammable Outputs / Salidas Prog.	Y	Y	Y	Y
DC Component / Componente DC	< 100mV			
EFFICIENCY / EFICIENCIA				
Eco Mode	(100% LOAD: 97%) - (75% LOAD: 96%) - (50% LOAD: 96%) - (25% LOAD: 94%)			
AC Mode / Modo AC	(100% LOAD: 91%) - (75% LOAD: 90%) - (50% LOAD: 90%) - (25% LOAD: 88%)			
Battery Mode / Modo Batería	(100% LOAD: 90%) - (75% LOAD: 90%) - (50% LOAD: 90%) - (25% LOAD: 88%)			
Inverter Efficiency / Eficiencia Inversor (100%)	(100% LOAD: 97%)			
	276	414	491	737
OVERLOAD/ SOBRECARGA				
AC Mode / Modo Normal	100%~110%: (warning-alarma) / 110%~130%: 5min to bypass / >130% : 30s to bypass			
Battery Mode / Modo Batería	100%~110%: (warning-alarma) / 110%~130%: 5min to OFF / >130% : 30s to OFF			
PROTECTIONS				
Surge / Contra Picos	120V MODEL: >800J (L-N, L-G, N-G) / 220V MODEL: >1250J (L-N, L-G, N-G)			
Short Circuit / Contra Cortos en la salida	Outlets power-off / Apagado de las salidas (400% of nominal current / 5 cycles)			
Input Current / Corriente de Entrada	Circuit Breaker / Disyuntor			
Output Current / Corriente de Salida	Circuit Breaker for 3K NEMA models / Disyuntor para modelos de 3K NEMA			
Battery Current / Corriente de baterías	Internal Fuse 80A Fast Action / Fusible Interno 80A Acción Rápida			
Starting Time / Tiempo de Arranque				
BATTERIES / BATERIAS				
Type / Tipo	Sealed Lead Acid VRLA-AGM / Sellada de Libre Mantenimiento VRLA-AGM			
Cap. & Qty	12V/7AH x 3 (36VDC)	12V/9AH x 3 (36VDC)	12V/7AH x 6 (72VDC)	12V/9AH x 6 (72VDC)
Recharge Time / Recarga	4 Hours for 90% capacity / 4 Horas para recuperar el 90% de carga			
Charging VDC / Voltaje del cargador (Floating)	41.0VDC	41.0VDC	82.1VDC	82.1VDC
Shutdown battery Voltage / Voltaje DC Apagado	10.0 Vdc per battery typical (*N4)			
Charging Amps / Corriente de Carga	1.5 A (Max.)			
EXT. BATT CABINETS (Optional) - BATERIAS EXTERNAS (opcionales)				
Standard EXT-BATT pack	12V-9Ah x 6 (36VDC)	12V-9Ah x 6 (36VDC)	12V-9Ah x 12 (72VDC)	12V-9Ah x 12 (72VDC)

Technical Features / Características Técnicas

OPTIMA T09	1K	1.5K	2K	3K
OUTLETS: QTY & TYPE / SALIDAS: CANTIDAD Y TIPO				
UPS MODEL: 230Vac (EUROPE)				
Total Outlets / Total Salidas	SCHUKO x 2	SCHUKO x 2	SCHUKO x 4	SCHUKO x 4
Standard Power Outlets / Salidas Estándar	SCHUKO x 1	SCHUKO x 1	SCHUKO x 2	SCHUKO x 2
Prog. Outlets / Salidas prog. (*N2)	SCHUKO x 1	SCHUKO x 1	SCHUKO x 2	SCHUKO x 2
UPS MODEL: 120Vac (AMERICA)				
Total Outlets / Total Salidas	NEMA-15 x 4	NEMA-15 x 4	NEMA-15 x 8	NEMA-20 x 6 +TB
Standard Power Outlets / Salidas Estándar	NEMA-15 x 2	NEMA-15 x 2	NEMA-20 x 4	NEMA-20 x 3 +TB
Prog. Outlets / Salidas prog. (*N2)	NEMA-15 x 2	NEMA-15 x 2	NEMA-20 x 4	NEMA-20 x 3
PHYSICAL / FISICAS: UPS				
DxWxH / Prof.*Ancho*Altura (mm)	397x145x220	397x145x220	421x190x318	421x190x318
Net Weight / Peso Neto (kgs)	13	14	26	27
PHYSICAL / FISICAS: XBAT				
DxWxH / Prof.*Ancho*Altura (mm)	397x145x220	397x145x220	421x190x318	421x190x318
Net Weight / Peso Neto (kgs)	20	21.2	38	40.4
PACKING / EMPAQUE				
UPS "Tower" Type				
Unit CARTON: DxWxH (mm)	472x230x325	472x230x325	560x320x460	560x320x460
Unit Gross Weight / Peso Bruto (Kg)	14	15	28	29
Half Pallet / Medio Pallet	30pcs	30pcs	12pcs	12pcs
Full Pallet / Pallet Completo	50pcs	50pcs	24pcs	24pcs
XBAT "Tower" Type				
Unit CARTON: DxWxH (mm)	472x230x325	472x230x325	560x320x460	560x320x460
Unit Gross Weight / Peso Bruto (Kg)	21	22.2	40	42.4
Half Pallet / Medio Pallet	30pcs	30pcs	12pcs	12pcs
Full Pallet / Pallet Completo	50pcs	50pcs	24pcs	24pcs
OPERATIONAL CONDITIONS / CONDICIONES DE OPERACIÓN				
Rel. Humidity / Humedad Relativa	< 95 % RH (non-condensing / no condensante)			
Temperature / Temperatura	0 - 40 ºC			
Noise Level / Ruido Producido				
Max. Altitude / Altura de Operación Max.	4.500 meters over sea level / sobre nivel del mar. * Power output de-rate of 1% every 100m (over 1.000m) * Disminución de potencia de 1% cada 100m (sobre los 1.000m)			
COMMUNICATION / COMUNICACION				
Smart RS-232 & USB	Windows 98 SE/ME/NT 4.x/2000/2003/XP/Vista/2008 / Windows 7; Linux; Unix; Mac OS			
Intelligent SNMP Port:	LAN Card SNMP type - optional / Comunicación con LAN mediante SNMP opcional AS400 Interface (optional comm. Card) / Interfaz con AS400 (tarjeta opcional)			

Technical specifications can be modified to comply with special requirements / Las especificaciones pueden bajo requerimiento adaptarse a proyectos
Technical specifications may change without further notice / Por motivos comerciales o técnicos las especificaciones pueden cambiar sin previo aviso.
(*N1): Output voltage is selectable by LCD / El Voltaje de salida es configurable entre 4 alternativas seleccionables en el LCD
(*N2): Backup time for programable outlets can be configurable (in minutes) / Las salidas programables pueden configurarse en minutos
(*N4): Shutdown voltage depends of load % & runtime / Voltaje de corte de baterías depende de carga y runtime
(*N5): Recharing time based on previous 10 to 20min full discharging cycles. Tiempo de recarga basado en ciclos previos de descarga profunda de 10 a 20min

Standards and Certifications: CE
Low Voltage Directives 2006/95/EC
IEC60950-1:2001:Information Technology Equipment – Safety-Part1: General Requirement
EN62040-1-1:2003:Uninterrumpible Power Systems (UPS) Part 1-1: General and Safety requirements for UPS used in operator access areas
EMC Directives 89/336/EEC, 2004/108/EC and Amendment 93/68/EEC
EN62040-2:2006:Uninterrumpible Power Systems (UPS) Part 2: Electromagnetic compatibility class C2 (EMC)
IEC 61000-2-2: 2002:Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems
IEC 61000-4-2: 2001:Electrostatic discharge immunity test
IEC 61000-4-3: 2006:Radiated, radio-frequency electromagnetic field immunity test
IEC 61000-4-4: 2004:Electrical fast transient/burst immunity test
IEC 61000-4-5: 2005:Surge immunity test
IEC 61000-4-6: 2006:Conducted immunity test
IEC 61000-4-8: 2001:Power frequency magnetic field immunity test
IEC 61000-4-11: 2004:Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests