

เครื่องสำรองไฟฟ้า

CLEANLINE UPS

True On-Line Double Conversion Design



T-80K33LV2/T-60K33LV2

T-40K33LV2/T-30K33LV2

T-20K33LV2/T-15K33LV2/T-10K33LV2

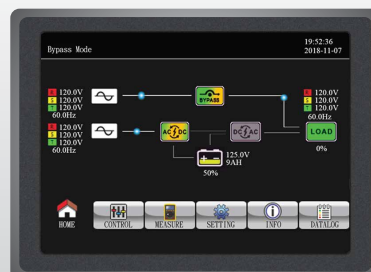
Tower Model

T-10K33LV2	10kVA/10kW
T-15K33LV2	15kVA/15kW
T-20K33LV2	20kVA/20kW
T-30K33LV2	30kVA/30kW
T-40K33LV2	40kVA/40kW
T-60K33LV2	60kVA/60kW
T-80K33LV2	80kVA/80kW

KEY Features:

- **True double conversion with DSP technology**
Double conversion between input/output, battery and bypass are totally isolated power line noise, spike and transients, keeping power failure away from your critical loads.
- **Output power factor 1**
For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advanced performance.
- **Active power factor correction in all phases**
Power factor correction is active in all phases and it can improve the efficiency of input.
- **50Hz/60Hz frequency converter mode**
Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.
- **ECO mode operation for energy saving**
ECO mode improves the efficiency up to 98% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

- **Emergency power off function (EPO)**
In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.
- **Optional parallel operation with common battery**
The system can be operated in parallel, increasing the capacity and performance. Besides, this parallel UPS system can share common battery packs which might greatly reduce the expense and reach the same performance up to 6 units.
- **Smart battery charger design to optimize battery performance**
This UPS is equipped with 3-stage charger for optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.
- **5" touch LCD for T-10K33LV2 - T-80K33LV2 models**



On-line UPS Seletion Guide

MODEL	T-10K33LV2	T-15K33LV2	T-20K33LV2	T-30K33LV2	T-40K33LV2	T-60K33LV2	T-80K33LV2
PHASE	1-phase in/1-phase out, 3-phase in/1-phase out or 3-phase in/3-phase out			3-phase in/3-phase out			
TOTAL CAPACITY	10kVA/10kW	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW	80kVA/80kW
TOPOLOGY	True On-line Double Conversion						
INPUT							
Nominal Voltage	1 x 220/230/240 VAC (1-Ph+N) or 3 x 380/400/415 VAC (3-Ph+N)			3 x 380/400/415 VAC (3-Ph+N)			
Voltage Range	161-276 VAC (1-phase) @ 100% load 280-480 VAC (3-phase) @ 100% load			280-480 VAC (3-phase) @ 100% load			
Frequency Range	40-70Hz						
Power Factor	≥0.99 @ 100% load						
Harmonic Distortion (THDi)	< 3% at full linear load						
OUTPUT							
Output Voltage	1 x 220/230/240 VAC (1-Ph+N) or 3 x 380/400/415 VAC (3-Ph+N)			3 x 380/400/415 VAC (3-Ph+N)			
Voltage Regulation (Steady state)	±1% Typical (balanced load); ±2% Typical (unbalanced load)						
Voltage Recovery Time	±1% at 10 ms						
Frequency Range (Synchronized Range)	50Hz or 60Hz ±1%, ±2%, ±4%, ±8% (adjustable)						
Frequency Range (Batt. Mode)	50Hz or 60 Hz ±0.1Hz						
Current Crest Ratio	3:1 (max.)						
Harmonic Distortion	≤1% THD (Linear Load); ≤3% THD (Non-linear load)						
Transfer	AC Mode to Batt. Mode			Zero			
Time	Inverter to Bypass			Zero			
Waveform (Batt. Mode)	Pure Sine wave						
Overload	AC Mode			>100-110% for 60 min >110-125% for 10 min >125-150% for 1 min			
	Battery Mode			>100-110% for 60 min >110-125% for 10 min >125-150% for 1 min			
Parallel Capacity	up to 6 units in parallel						
EFFICIENCY							
AC Mode	96.0%						
ECO Mode	99.0%						
Battery Mode	96.0%						
BATTERY							
Typical Recharge Time	9 hours recover to 90% capacity						
Internal Battery	20pcs	32pcs	64pcs	-			
Charging Current (max.)	12A		16A	24A	32A		
INDICATORS							
LCD Display	5" monochrome LCD" Touch Type color LCD UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault Conditions						
ALARM							
Battery Mode	Sounding every 4 seconds						
Low Battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continuously sounding						
PHYSICAL							
Dimension, D x W x H (mm)	630 x 250 x 826		815 x 300 x 1000	790 x 360 x 1010			
Net Weight (kgs)	124	139	225	250	108	113	
ENVIRONMENT							
Operation Temperature	0-40° C						
Operation Humidity	<95% and non-condensing						
Noise Levell	Less than 60dB @ 1 Meter		Less than 63dB @ 1 Meter		Less than 65dB @ 1 Meter		
MANAGEMENT							
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC						
Optional SNMP	Power management from SNMP manager and web browse						
STANDARDS							
Safety	IEC/EN 62040-1						
EMC	IEC/EN 62040-2 IEC/EN 62040-3						
Accessories and Optional	Isolation Transformers, SNMP-Adapter						

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SD-MIK-090-B