

Powering Business, Powering Success!

 **OPTIMUS 3P**
15-20

Luminous **Optimus 3P 15-20** high-capacity inverter is a perfect choice for commercial settings, offering reliable 3-phase backup power for various applications like hotels, offices, hospitals, malls, and apartments.

Capacity
15 KVA

Technology
Pure sine wave

Phase type
3 Phase

No. of battery supported
Twenty battery (240V)

Suitable for



**Small Scale
Industries**



**Educational
Institutions**



Apartments

TECHNICAL SPECIFICATIONS

CONTENTS	Parameters	15KVA/240V
TECHNOLOGY	Topology	DSP controlled, IGBT based, with transformer
RATING	System rating	15KVA
OUTPUT	Input & output	3P (input) - 3P (output)
	PF	0.8
	Configuration	3P + N + E (3 phase, 4 wires + earth)
	Output voltage setting	- 230V / 220V $\pm$ 2% (phase-neutral)
		- 400V/380V (phase-phase) (selectable)
	Output frequency	50 Hz $\pm$ 0.5 Hz
	THD (linear load)	<3%
	Overload/number of retry	110% for 5 min, 150% for 15 sec, 200% for 7 sec, 300% for 3 sec
	Efficiency	>= 88% (battery mode) > 90% (charger)
	Transfer time mains to inverter	<70msec^{**}
	Transfer time inverter to mains	<2msec
	Transient response	$\pm$ 5%
	Recovery time	Recovery to $\pm$ 2 % of nominal voltage in <60msec
	Output voltage regulation on 100% unbalanced load	$\pm$ 5%
	Crest factor	3:1
	Input voltage	415V, 3Phase + neutral
INPUT	Nominal input voltage range	-150-280V / 180-270V / 190-260V (phase-neutral) -260-480V / 312-468V / 329-450V (phase-phase) (selectable)
	Frequency range	44 - 55 Hz
	PF	0.85 to 0.92
	Type	Float - boost, cvcc type
	Battery selection	Tubular / Flat / SMF
BATTERY CHARGER	No. of batteries	20
	Charging current	10A / 15A / 20A
ENVIRONMENT	Ambient temperature	45 deg C
	Humidity	95% RH - humidity
	Noise level	55 db*
INGRESS PROTECTION	IP	20
VENTILATION	Ventilation	Forced air cooled
DISPLAY	LCD display + LED	Monochrome alphanumeric LCD + 6 LEDs
PROTECTION	Input & output protection & warning	Reverse battery, Input phase reversal, Mains low/high cut, DC low, Voltage/Over voltage, Overload, Short circuit, High temperature
INDICATIONS	LED indication	Grid, Battery chg/charged, Overload/Short circuit, Battery low, Switch on/off, Input phase reversal
	LCD display	System type, System capacity, H/W & S/W revision, Input voltage, Input frequency, Output voltage, Output frequency, Output, Load status, Battery voltage and inverter switch position, System settings, protection
DIMENSIONS		680x436x820 (LxWxH) in mm
NET WEIGHT		134.0Kg approx

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