# **LEONICS**<sub>®</sub>



### APOLLO GTP-500HETL(P)

### Three Phase Grid Connected Central Inverter

- Design and tested for PEA regulation
- High inverter efficiency
- 2 control modes for reactive power support
- Low voltage fault ride through
- Low Total Harmonic Distortion (THDi)
- Integrate with PV Maximum Power Point Tracking (MPPT)
- Can do negative grounding (for thin film and reduce PID in c-Si PV module)
- Islanding protection (IEC 61727 and IEC 62116) compliance) during failure of utility grid power supply
- Automatic start and shutdown during over heating
- Superior user protection
- Over and under voltage and frequency protections
- ISO 9001 and ISO 14001 certified factory



## **LEONICS**<sub>®</sub>



### APOLLO GTP-500HETL(P)series Three Phase Grid Connected Central Inverter

MODEL		GTP-507HETL(P)	GTP-512HETL(P)	GTP-515HETL(P)	GTP-516HETL(P)	GTP-517HETL(P)	GTP-518HETL(P)	
RATED POWER	PV input	137.5 kW	275 kW	500 kW	550 kW	650 kW	750 kW	
	AC output	125 kW / 138 kVA	250 kW / 278 kVA	450 kW / 450 kVA	500 kW / 500 kVA	600 kW / 600 kVA	680 kW / 680 kVA	
SYSTEM	IGBT technology							
PV INPUT	MPPT voltage range	360 to 450 Vdc	440 to 650 Vdc	550 to 800 Vdc	550 to 800 Vdc	550 to 800 Vdc	600 to 800 Vdc	
	(Vmp of PV string)	(calculate by using Vmp)	(calculate by using Vmp)	(calculate by using Vmp)	(calculate by using Vmp)	(calculate by using Vmp)	(calculate by using Vmp)	
	Max. open circuit voltage	550 Vdc	780 Vdc	1,000 Vdc	1,000 Vdc	1,000 Vdc	1,000 Vdc	
	(Voc of PV string)	(calculate by using Voc)	(calculate by using V <sub>oc</sub> )					
	Maximum PV current	382 A	625 A	785 A	1,000 A	1,180 A	1,180 A	
AC OUTPUT	Voltage With isolation TF	380 Vac (L-L) ±10 %	380 Vac (L-L) ±10 %	380 Vac (L-L) ±10 %	380 Vac (L-L) ±10 %	380 Vac (L-L) ±10 %	380 Vac (L-L) ±10 %	
TO GRID LINE	Transformerless	210 Vac (L-L) ±10 %	300 Vac (L-L)±10 %	400 Vac (L-L)±10 %	380 Vac (L-L) ±10 %	380 Vac (L-L)±10 %	400 Vac (L-L)±10 %	
	Phase	Three phase (for 3 coils)						
	Frequency	50 / 60 Hz -6%, +4%						
	Power factor control	0.9 leading - 0.9 lagging						
	Total harmonic distortion	THDi < 3% (at full load)						
	Power limiting	0 - 100%						
	Maximum AC current	209 A	422 A	685 A	760 A	915 A	1,040 A	
	(with isolation transformer)							
	Maximum AC current	220 A	309 A	375 A	440 A	530 A	570 A	
	(transformerless)							
INVERTER PEAK	With isolation transformer	<u>ormer</u> > 95% 97% 97% 97% 97%					6%	
EFFICIENCY Transformerless		> 96.3%	98%		98.5%	98.6%		
		(CEC > 96%, EURO > 95.5%)     (CEC > 97%, EURO > 96.988%)     (CEC > 98.3%, EURO > 97.8%)     (CEC > 98.4%, EURO > 98				EURO > 98.1%)		
PROTECTION	Input / Output	Over / under voltage (AC&DC), frequency (AC)						
	Islanding operation	Active and passive anti-islanding						
	Over heat	Automatic shutdown and restart						
	Surge dissipation	20 kA Category C1 for AC (separate supply)						
USING WITH TF	Transformer vector group Diii (Transformerless only)							
INDICATOR	LED	Mains, Operating, Synchronize, PV, Over temp., Alarm						
	LCD display	Input (voltage, current, power, frequency), Generated power, Generated energy, Accumulated energy, PV (voltage, current, power, energy, accumulated energy), status						
AUDIBLE ALARM		Mains failure, inverter fault						
POWER		less than 40 Watt in standby mode,						
CONSUMPTION		< U.5 Watt in sleep mode						
	Tomporoturo							
ENVIRONVIENT	Pelotivo humiditu							
DESIGN	Standard							
DEGULATION DEA Doubtion 2012						2		
REGULATION	FEA Regulation 2013	Over / Under voltage, Over / Under trequency, Islanding protection, Pactice and the paper and the pa						
	Enclosuro	response to utility recovery, bynamic network support, voltage and nequency, micker, bo injection, neactive power control, Active power control, Harmonic and wave form distortion						
DIMENSION	Top-entry	90 x 205 x 105 120 x 205 x 105						
$(W \times H \times D)$ (cm)	Bottom-entry	90 x 188 x 105	120 x 205 x 105	120 x 205 x 105	120 x 205 x 105	120 x 205 x 105	120 x 205 x 105	
WEIGHT	Top-entry	1 000 (With TF)	1 540 (With TF)	-	-	-	120 X 200 X 100	
(approx in kg)	iop only	800 (Transformerless)	975 (Transformerless)	1 280 (Transformerless)	1.300 (Transformerless)	1 340 (Transformerless)	1 340 (Transformerless)	
(approx. in itg)	Bottom-entry	865 (With TF)	1.540 (With TF)	-	-	-	1,040 (Transformeness)	
	,	665 (Transformerless)	1,240 (Transformerless)	1,280 (Transformerless)	1,300 (Transformerless)	1,340 (Transformerless)	1,340 (Transformerless)	

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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