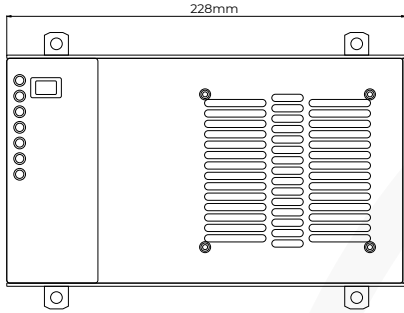
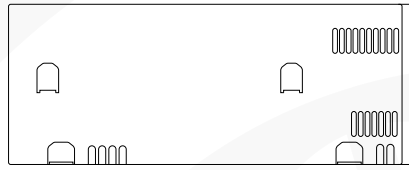


POWERSERVICE GOLD

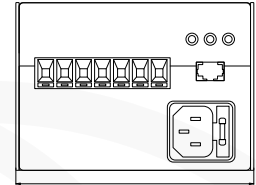
Code: Gold 12-24/20, Gold 24-24/20



UPPER



SIDE



FRONT

		Code	Gold 12-24/20	Gold 24-24/20
NOMINAL INPUT VOLTAGE	Alternator		12V	24V
	Solar Panel		-	-
	Grid		230Vac / 50Hz	
INPUT VOLTAGE RANGE	Alternator		11V-15V	22V-30V
	Solar Panel		-	-
	Grid		90Vac-264Vac 47/63Hz	
MAXIMUM INPUT VOLTAGE	Alternator		45A	30A
	Solar Panel		-	-
	Grid		3,5A	
INPUT SOURCES RECOMMENDED POWER	Alternator		≥110A	≥55A
	Solar Panel		-	-
	Grid		≥450W	≥450W
NOMINAL OUTPUT VOLTAGE			24V	
OUTPUT VOLTAGE RANGE			22V-32V	
BATTERY OUTPUT NUMBERS			1	
MAX CHARGING CURRENT	Alternator		20A	
	Solar Panel		-	-
	Grid		10A	
GALVANIC INSULATION			No	
MAXIMUM EFFICIENCY			83%	90%
COOLING			Cooling Fan	
CHARGING CURVES			5 phases	
CHARGING CURVE SELECTOR			Yes – Jumper	
BATTERY TECHNOLOGY			AGM, GEL, Wet, LiFePO ₄	
RECOMMENDED BATTERY CAPACITY			≥60Ah	

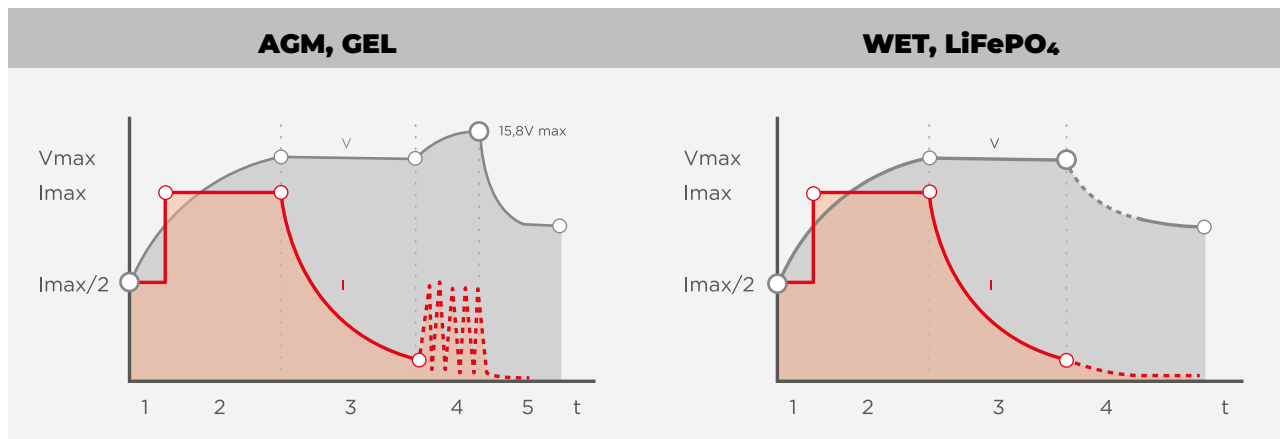
	AGM		Gel		Wet		Lithium (LiFePO ₄)		EURO 6	
	12V	24V	12V	24V	12V	24V	12V	24V	12	24
MAX Charging Voltage	14,8V	29,6V	14,3V	28,6V	14,5V	29V	14,5V	29V	14,6V	29,2V
Maintenance Voltage	13,8V	27,6V	13,6V	27,2V	13,5V	27V	13,5V	27V	13,7V	27,4V
MAX Desulph. Voltage	15,8V	31,6V	15,8V	31,6V	/	/	/	/	/	/



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Code		Gold 12-24/20	Gold 24-24/20
BATTERY VOLTAGE DETECTION		Yes	
D+ SIGNAL ALTERNATOR / IGNITION+		Yes – Active high	
EURO6 SYSTEM COMPATIBILITY AND SMART ALTERNATOR		Yes	
ACTIVATION THRESHOLD	Alternator	$V_m \geq 13,3V$ e D+ on	$V_m \geq 26,6V$ e D+ on
	Smart Alternator	$V_m \geq 12,4V$ e D+ on	$V_m \geq 24,8V$ e D+ on
	Solar Panel	-	-
	Grid	D+ line absence off	
DEACTIVATION THRESHOLD	Alternator	$V_m \leq 12,8V$ o D+ off	$V_m \leq 25,6V$ o D+ off
	Smart Alternator	$V_m \leq 11,8V$ o D+ off	$V_m \leq 23,6V$ o D+ off
	Solar Panel	-	-
	Grid	D+ line absence on	
CONNECTIONS		7-pole screw terminal block	
STATUS INDICATOR		Yes – 2 LED e Buzzer	
PROTECTION DEGREE		IP20	
PROTECTIONS		Short-circuit, Reversed polarity, Overheating	
WORKING TEMPERATURE		-20°C / +50°C	
SIZE		230mm x 135mm x 94mm	
WEIGHT		1400g	

CHARGING CURVES



Phase	Status
1	Constant Current
2	Constant Current
3	Constant Voltage
4	Desulphation
5	Maintenance

Phase	Status
1	Constant Current
2	Constant Current
3	Constant Voltage
4	Maintenance

This data sheet is indicative. NDS Energy reserves the right to make changes to the illustrated items at any time, without prior notice, for technical or commercial reasons.

Last update date: 03/06/2019