

DAFTAR ISI

TUGAS AKHIR.....	Error! Bookmark not defined.
LEMBAR PENGESAHAN TUGAS AKHIR	Error! Bookmark not defined.
LEMBAR PERNYATAAN ORISINALITAS	Error! Bookmark not defined.
ABSTRAK.....	Error! Bookmark not defined.
ABSTRACT.....	Error! Bookmark not defined.
KATA PENGANTAR	Error! Bookmark not defined.
UCAPAN TERIMA KASIH.....	Error! Bookmark not defined.
DAFTAR ISI.....	1
DAFTAR TABEL.....	Error! Bookmark not defined.
DAFTAR GAMBAR	Error! Bookmark not defined.
DAFTAR SINGKATAN	Error! Bookmark not defined.
DAFTAR ISTILAH.....	Error! Bookmark not defined.
PENDAHULUAN	Error! Bookmark not defined.
1.1 Latar Belakang Masalah.....	Error! Bookmark not defined.
1.2 Tujuan.....	Error! Bookmark not defined.
1.3 Rumusan Masalah	Error! Bookmark not defined.
1.4 Manfaat.....	Error! Bookmark not defined.
1.5 Batasan Masalah.....	Error! Bookmark not defined.
1.6 Metodologi Penelitian	Error! Bookmark not defined.
1.7 Sistematika Penulisan.....	Error! Bookmark not defined.
LANDASAN TEORI.....	Error! Bookmark not defined.
2.1 Photovoltaics	Error! Bookmark not defined.
2.2 Maximum Power Point Tracking (MPPT)	Error! Bookmark not defined.
2.3 Buck Converter	Error! Bookmark not defined.
2.2 Mikrokontroller AVR.....	Error! Bookmark not defined.
2.2.1. Arduino Mega	Error! Bookmark not defined.
2.4 Pulse Width Modulation (PWM)	Error! Bookmark not defined.
2.5 Sensor.....	Error! Bookmark not defined.
2.5.1. Sensor Tegangan.....	Error! Bookmark not defined.
2.5.2 Sensor Arus.....	Error! Bookmark not defined.
2.6 Baterai	Error! Bookmark not defined.

2.6.1. Baterai Asam (Lead Acid Storage Battery)	Error! Bookmark not defined.
2.7. Metode Pengisian Baterai Lead-Acid	Error! Bookmark not defined.
PERANCANGAN SISTEM	Error! Bookmark not defined.
3.1 Konfigurasi Sistem.....	Error! Bookmark not defined.
3.1.1 Sistem untuk MPPT	Error! Bookmark not defined.
3.1.2 Sistem Charging Control <i>Three Steps Charging</i>	Error! Bookmark not defined.
3.2 Perancangan Buck Converter	Error! Bookmark not defined.
3.3 Perencanaan Algoritma P&O	Error! Bookmark not defined.
3.4 Perancangan Perangkat Keras	Error! Bookmark not defined.
PENGUJIAN DAN ANALISIS	Error! Bookmark not defined.
4.1 Pengambilan data karakteristik Photovoltaic yang digunakan.	Error! Bookmark not defined.
4.2 Pengujian Sensor Tegangan Pada Baterai	Error! Bookmark not defined.
4.3 Pengujian sinyal PWM dari mikrokontroler ke <i>driver</i> mosfet TLP 250.....	Error! Bookmark not defined.
4.5 Pengujian rangkaian buck converter menggunakan photovoltaic dan beban resistor dengan nilai duty cycle yang diubah-ubah	Error! Bookmark not defined.
4.5 Pengujian Perolehan Daya dari <i>Photovoltaic</i> dengan menggunakan sistem MPPT Metode P&O	Error! Bookmark not defined.
4.6 Pengujian Sistem Control Charging Dengan Menggunakan <i>Photovoltaic</i> dan Baterai.	Error! Bookmark not defined.
4.7 Pengujian Charging battery dengan tidak menggunakan buck converter	Error! Bookmark not defined.
KESIMPULAN DAN SARAN.....	Error! Bookmark not defined.
5.1 Kesimpulan.....	Error! Bookmark not defined.
5.2 Saran.....	Error! Bookmark not defined.
Daftar Referensi	Error! Bookmark not defined.
LAMPIRAN.....	Error! Bookmark not defined.